PROPOSED NEW BUILDING FOR:

CHURCH OF GOD IN CHRIST

3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

ARCHITECTURAL

ARCHITECTURAL DESIGN
RESIDENTIAL
COMMERCIAL
INDUSTRIAL

GAV ASSOCIATES

G.A.V. & ASSOCIATES, INC.
24001 ORCHARD LAKE RD.
SUITE #180A
FARMINGTON, MICHIGAN 48336
PHONE (248) 985-9101

CIVIL

CONSULTING ENGINEERS
CIVIL

PEA, Inc.
2430 Rochester Ct., Ste. 100
Troy, MI 48083-1872
t: 248.689.9090
f: 248.689.1044
www.peainc.com

PEA ENGINEERS
2430 ROCHESTER COURT, STE:100
TROY, MICHIGAN
PHONE (248) 689-9090
FAX (248) 689-1044
WEB: WWW.PEAINC.COM

STRUCTURAL

FRIENDSHIP ENGINEERING INC.
PH: (248) 246 6577
FAX: (248) 246 6580
3717 TIMBERCREST DR.
TROY, MI 48083

CONSULTING ENGINEER
STRUCTURE

FRIENDSHIP ENGINEERING
3717 TIMBERCREST DRIVE
TROY, MICHIGAN, 48083
PHONE (248) 246-6577
FAX (248) 246-6580

PROJECT INFORMATION

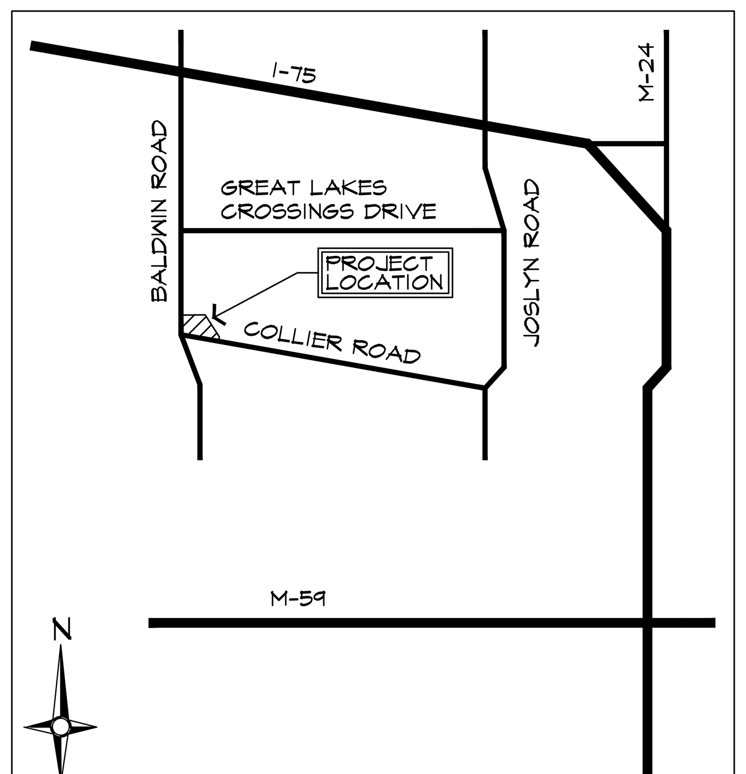
PROJECT NUMBER: 19059

PROJECT LOCATION: 3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN

DESIGN FIRM: GAV & ASSOCIATES, INC.
24001 ORCHARD LAKE RD
FARMINGTON, MI 48336
PHONE: (248) 985-9101

1. THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE: SAMIR M. KARIM, MI LIC. #1301038452.
2. THESE CONSTRUCTION DOCUMENTS WERE PREPARED FOR COMPLIANCE WITH THE MICHIGAN CONSTRUCTION CODES IN EFFECT AT THE TIME OF PERMIT SUBMITTAL. ALL ENGINEERS, CONTRACTORS AND SUPPLIERS INVOLVED WITH THIS PROJECT SHALL COMPLY WITH THE SAME CODES, ISSUED AND APPROVED CODE MODIFICATIONS AND/OR CITY OF AUBURN HILLS / STATE OF MICHIGAN CONSTRUCTION BOARDS OF APPEALS RULINGS AND WHENEVER REQUIRED SHALL PROVIDE SHOP DRAWINGS AND SUBMITTALS CLEARLY DESCRIBING COMPLIANCE TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE FOR REVIEW AND APPROVAL.

LOCATION MAP



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SHEET INDEX (CONTINUED)

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SHEET INDEX (CONTINUED)

DEFFERED SUBMITTALS

DEFERRED SUBMITTALS AND SPECIAL INSPECTIONS

1. FIRE PROTECTION SPRINKLER SYSTEM
2. FIRE ALARM SYSTEM
3. INTERIOR FINISHES
4. INTERIOR AND EXTERIOR AND SIGNAGE
5. SPECIAL INSPECTIONS:
   - 5.1. FOUNDATIONS
   - 5.2. STEEL
6. ELEVATOR SUBMITTAL
7. STEEL DRAWINGS
8. STRUCTURAL ALUMINUM CROSS.

ISSUED FOR

PERMITS	08.23.2021

SEAL

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

GENERAL CONDITIONS:

1. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERALLY THE LOCATIONS OF MATERIAL AND EQUIPMENT. THESE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. CONSTRUCTION MANAGER IS RESPONSIBLE FOR REVIEWING, COORDINATING AND APPROVING ALL WORK TO BE DONE BY CONTRACTORS. ANY SUBMITTAL TO ARCHITECT / ENGINEER SHALL BE REVIEWED BY THE C.M. BEFORE SUBMITTING TO ARCHITECT / ENGINEER.
2. BUILDING SHALL BE FULLY FIRE SUPPRESSED IN ACCORDANCE WITH 2015 MBC AND ALL APPLICABLE CODES.
3. SPRINKLER CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF FIRE SUPPRESSION SYSTEM FOR FIRE MARSHALS REVIEW AND APPROVAL.
4. BUILDING SHALL HAVE A NEW FIRE ALARM SYSTEM PER ELECTRICAL DRAWINGS AND THE SYSTEM SHALL COMPLY WITH 2015 MBC AND ALL APPLICABLE CODES.
5. ALL EXTERIOR WOOD, PLYWOOD, ETC. SHALL BE PRESERVATIVE TREATED.
6. CONSTRUCTION MANAGER AND THE CONTRACTORS SHALL COMPLY WITH ALL CODES CURRENTLY IN EFFECT IN THE CITY OF AUBURN HILLS AND THE STATE OF MICHIGAN.
7. CONFORM TO A.I.A. DOCUMENT NO. A-201, LATEST EDITION, AND COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, LAWS, RULES AND REGULATIONS.
8. ALL CONTRACTORS SHALL CARRY ADEQUATE INSURANCE OR OTHERWISE SECURE, PROTECT AND HOLD HARMLESS THE OWNER AND ITS AGENTS AND THE ARCHITECT/ENGINEER FROM ANY LIABILITY OR DAMAGE WHATSOEVER, FOR INJURY (INCLUDING DEATH) TO ANY PERSON OR PROPERTY.
9. SUSPENDED ACOUSTICAL CEILING TILES AND GRID SYSTEM SHALL COMPLY NFPA 101 2012 AND MBC 2015.
10. GRID WORK SHALL BE SUPPORTED WITH A MINIMUM OF 2-12 GA. HANGER WIRES TO STRUCTURE ABOVE.
11. PROVIDE A KNOX BOX FOR FIRE DEPARTMENT ACCESS. LOCATE ON BUILDING. AS PER FIRE MARSHALL.
12. INSTALL 6" HIGH ADDRESS NUMBERS WHICH ARE VISIBLE FROM THE STREET. VERIFY LOCATION WITH FIRE MARSHAL.
13. ALL WALLS SHALL EXTEND UP TO AND BE SEALED TO THE UNDERSIDE OF FLOOR / ROOF DECK.
14. CONTRACTOR SHALL PROVIDE ALL NECESSARY SIGNAGE PER SECTION 1109 OF THE 2015 MBC AND SECTION 703 OF THE ANSI A117.1.
15. ALL PROTRUDING OBJECTS ON CIRCULATION PATHS SHALL COMPLY WITH SECTION 307 OF THE ANSI A117.1-2009
16. ANY RATED WALL THAT HAS PROTECTED OPENINGS OR PENETRATIONS SHALL BE PERMANENTLY IDENTIFIED ABOVE CEILING WITH SIGNS OR STENCILING @ NOT LESS THAN 30'-0" O.C. ALONG THE HORIZONTAL DIMENSION. LETTERS SHALL NOT BE LESS THAN 0.5" IN HT. AND CONTAIN THE WORDS "FIRE & SMOKE BARRIER-PROTECT ALL OPENINGS".ALL PENETRATIONS IN WALLS FOR PIPING.
17. ALL PENETRATIONS IN RATED WALLS SHALL BE SEALED W/ APPLICABLE FIRE RATED SEALANT, STOP, OR OTHER APPROVED METHOD PER I.F.C. 2012. ANY PENETRATIONS SHALL BE SEALED WITH FIRE RATING EQUIVALENT TO PENETRATED SYSTEM.
18. A PORTABLE FIRE EXTINGUISHER MUST BE PRESENT DURING CONSTRUCTION. PERMANENT PORTABLE FIRE EXTINGUISHER LOCATIONS TO BE DETERMINED PER I.F.C. AND FIELD BUILDING INSPECTOR.
19. FIRESTOPPING SHALL BE TESTED IN ACCORDANCE WITH ASTM E-814 TEST STANDARDS. CONTRACTOR TO SUBMIT TEST REPORT ATTACHED WITH THE SUBMITTAL COVER SHEET FOR EACH APPLICATION, I.E., FOR EACH KIND OF CONSTRUCTION (RATED FLOOR./CEILING RATED WALLS,ETC.) BEFORE INSTALLATION. FIRESTOPPING INSTALLATION SHALL NOT BE CONCEALED WITH FINAL CONSTRUCTION UNTIL APPROVED BY BUILDING INSPECTOR.
20. ALL HAZARDOUS ROOMS TO HAVE DOOR CLOSURE AND SHALL BE SMOKE TIGHT ENCLOSURES IN JANITOR CLOSETS, MECHANICAL / ELECTRICAL ROOMS AND STORAGE ROOMS.
21. DO NOT SCALE DRAWINGS. USE GIVEN DIMENSIONS ONLY. DIMENSIONS ARE TO THE FACE OF FINISH, U.N.O. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERALLY THE LOCATIONS OF MATERIAL AND EQUIPMENT. THESE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. GENERAL CONTRACTOR IS RESPONSIBLE FOR REVIEWING, COORDINATING AND APPROVING ALL WORK TO BE DONE BY SUB CONTRACTORS. ANY SUBMITTAL TO ARCHITECT / ENGINEER SHALL BE REVIEWED BY THE G.C. BEFORE SUBMITTING TO ARCHITECT / ENGINEER. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR IS RESPONSIBLE FOR CONSULTING WITH THE TENANT AND OWNER BEFORE CONTINUING WITH THE WORK FOR POSSIBLE REDESIGN.
22. VERIFY LOCATION OF ALL EQUIPMENT AND VERIFY SIZES, WALL OPENINGS, AND SUPPORT REQUIREMENTS WITH MANUFACTURER. PROVIDE OPENINGS, BRACING AND REINFORCEMENT AS REQUIRED BY MANUFACTURER.
23. CONSTRUCTION MANAGER WILL SUPPLY SECURED STAGING AREA AND OFFICE TRAILER.
24. CONSTRUCTION MANAGER WILL COMPLY WITH ENVIRONMENTAL AGENCIES.
25. CONSTRUCTION MANAGER WILL SUPPLY TOILET FACILITIES FOR ALL TRADES.
26. CONSTRUCTION MANAGER WILL COMPLY WITH DEWATERING AS NECESSARY.
27. CONSTRUCTION MANAGER WILL BE RESPONSIBLE TO KEEP A CLEAN SITE AT ALL TIMES.
28. TEMPORARY BRACING, GUYING AND TIE DOWNS OF THE STRUCTURE DURING ERECTION SHALL BE THE RESPONSIBILITY OF THE ERECTOR AND CONTRACTOR(S). THE ENGINEER AND ARCHITECT ASSUME NO RESPONSIBILITY FOR THE ABSENCE, PRESENCE OR ADEQUACY OF ANY TEMPORARY BRACING. ALL EXISTING STRUCTURES THAT MAY BE AFFECTED BY THE NEW CONSTRUCTION SHALL BE BRACED AND PROTECTED AS REQUIRED.
29. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS (UNLESS NOTED OTHERWISE).
30. ALL FURRED/ STUDDED WALLS SHALL HAVE FIRE BLOCKING AS REQUIRED BY CODE.
31. VERIFY ALL EXISTING FIELD CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK. VERIFY ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS. IN THE EVENT OF DISCREPANCY, NOTIFY THE G.C. AND/OR THE ARCHITECT AND OBTAIN RESOLUTION BEFORE PROCEEDING. FAILURE TO NOTIFY THE ARCHITECT WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO PERFORM THE WORK AS INTENDED BY THE CONTRACT DOCUMENTS. CONTRACTOR(S) SHALL BE RESPONSIBLE FOR ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT.
32. ALIGN PARTITIONS WITH FACE OF OTHER PARTITIONS OR COLUMNS, UNLESS NOTED OTHERWISE. THE FACE OF EVERY PARTITION SHALL BE FLUSH WITHOUT OFFSETS. CHANGES IN PARTITION THICKNESS SHALL OCCUR AT CORNERS, PARTITION INTERSECTIONS OR OTHER FEATURES WHICH INTERRUPT THE PLANE OF THE PARTITION. FACE OF CORRIDOR PARTITIONS SHALL BE FLUSH FOR THE ENTIRE LENGTH OF THE CORRIDOR REGARDLESS OF CHANGES IN PARTITION THICKNESS, ALL ADJUSTMENTS SHALL BE MADE TO THE ROOM SIDE OF THE CORRIDOR PARTITION AND AT CORNERS.
33. ALL GYPSUM BOARD MATERIALS AND ACCESSORIES SHALL CONFORM TO THE APPROPRIATE STANDARDS IN ACCORDANCE WITH TABLE 2506.2 MBC 2015.
34. REFER TO INTERIOR FINISHES REQUIREMENT ON LIFE SAFETY SHEET A.091. ALL INTERIOR FINISHES SHALL HAVE A CLASS C FLAME SPREAD OF 76 TO 200 AND A SMOKE DEVELOPMENT INDEX NOT GREATER THAN 450 IN ACCORDANCE WITH ASTM E84 OR UL 723. ALL INTERIOR CARPET INCLUDING THOSE IN EXIT ENCLOSURES SHALL COMPLY WITH MBC SECTION 804, DOC FF-1 "PILL TEST" (CPSC 16 CFR, PART 1630) CONTRACTOR TO PROVIDE COMPLETE DOCUMENTATION TO FIELD INSPECTOR. FLOOR FINISH SHALL MEET A MIN. OF CLASS II FOR THE MIN. CRITICAL RADIANT FLUX INCLUDING THOSE IN EXIT ENCLOSURES. ALL FLOOR FINISHES SHALL BE IN ACCORDANCE WITH NFPA 253.

GENERAL CONDITIONS (CONTINUED):

35. ALL EXPOSED INSULATION SHALL HAVE A CLASS A FLAME SPREAD NOT GREATER THAN 25 AND A SMOKE DEVELOPMENT NOT GREATER THAN 450 IN ACCORDANCE WITH ASTM E84 REQUIREMENTS. OWNER TO PROVIDE DOCUMENTATION.
36. ALL EXIT DOORS & MEANS OF EGRESS DOORS SHALL BE SIDE HINGED, NON-LOCKING & SWING IN DIRECTION OF EGRESS.
37. ALL PLYWOOD, WOOD BLOCKING & NAILERS TO BE NON COMBUSTIBLE.
38. INFILL AROUND ALL EXTERIOR WALL PENETRATIONS. FLASH WITH METAL & RUBBER AND SEAL TIGHT AT WALL.
39. "EXIT" SIGNS SHALL HAVE RED LETTERS AT LEAST 6" HIGH AND THE MINIMUM WIDTH OF EACH STROKE SHALL BE 3/4" ON A WHITE BACKGROUND OR IN OTHER APPROVED DISTINGUISHABLE COLOR. THE WORD "EXIT" EXCEPT THE LETTER "I" SHALL HAVE LETTERS HAVING A WIDTH NOT LESS THEN 2 INCHES AND THE MINIMUM SPACING BETWEEN LETTERS SHALL NOT BE LESS THAN 3/8" OF AN INCH. SIGNS LARGER THAN THE MINIMUM SIZE REQUIRED SHALL HAVE LETTERS WIDTH AND SPACING IN THE SAME PROPORTION TO THE HEIGHT AS INDICATED IN THIS CODE. IF AN ARROW IS PROVIDED AS PART OF AN "EXIT" SIGN, THE CONSTRUCTION SHALL BE SUCH THAT THE ARROW CANNOT BE READILY CHANGED. THE WORD "EXIT" SHALL BE CLEARLY DISCERNIBLE WHEN THE SIGN IS ILLUMINATION MEANS IS NOT ENERGIZED.
40. MIN. AVERAGE ILLUMINATION OF 10 FOOTCANDLES IS REQUIRED AT A HEIGHT OF 30" AFF OVER THE AREA OF ALL ROOMS
41. PROVIDE TYVEK DRAINWRAP SHEET FOR ALL E.F.I.S. WORK INDICATED ON DRAWINGS.

SITE WORK:

REFER TO CIVIL DRAWINGS FOR ALL SITE INFORMATION. CIVIL DRAWINGS SHALL OVERRIDE THE SITE NOTES IN THIS SECTION.

1. PLACE FOUNDATIONS ON UNDISTURBED SOIL, U.N.O. VERIFY IN THE FIELD BY TEST AS REQUIRED THE BEARING CAPACITY UNDER FOOTINGS.
2. WHERE FOOTINGS CHANGE ELEVATIONS, STEP DOWN FOOTINGS ON FIRM BEARING AT THE RATE OF ONE FOOT VERTICAL TO TWO FEET HORIZONTAL.
3. STEP DOWN ALL FOOTINGS ADJACENT TO SUMPS, PITS, SEWERS, TANKS, EXISTING UNDERGROUND WORK, ETC., AND WHEREVER PRESSURE PLANE OF FOOTINGS MAY BE CUT BY DEEPER EXCAVATION. DROP THE FOOTING DOWN TO THE BOTTOM OF THE EXCAVATION FOR SUCH WORK TO FIRM BEARING.
4. ALL CONTINUOUS REINFORCING BARS SHALL BE LAPPED AS PER TENSION EMBEDMENT OR TENSION CLASS "C" SPLICE LENGTH. LAP CONTINUOUS TOP REINFORCING AT CENTER OF SPAN AND BOTTOM REINFORCING AT SUPPORTS. TERMINATE TOP BARS AT NON-CONTINUOUS END WITH STANDARD HOOK.
5. REMOVE ALL EXCESS MATERIAL OFF THE SITE . REMOVE ALL TOP SOIL, BRUSH, ROOTS, TREES, RUBBISH AND ALL OBSTRUCTIONS TO THE WORK FROM THE AREAS OF BOTH CUT AND FILL. REMOVE EXISTING FILL WITHIN BUILDING AREA AND REPLACE WITH COMPACTED SAND FILL AS REQUIRED.
6. PRIOR TO BACKFILLING TRENCHES OR FILLING EMBANKMENTS AT THE BUILDING AREA PROOF ROLL THE AREA WITH A 10 TON TRUCK LOADED WITH SOIL. ANY AREA UNDER THE WHEEL THAT SHOWS A DEPRESSION MORE THAN ONE INCH SHALL BE REMOVED TWO FOOT DEEP AND REPLACED WITH APPROVED FILL MATERIAL FREE OF ORGANIC MATERIAL AND WITH GRAIN SIZE LESS THAN 2 INCHES AND WITH GRADATION THAT CAN BE COMPACTED TO 95% MAXIMUM DRY DENSITY PER ASTM D-1557.
7. AND SHALL BE COMPACTED IN 8 INCH LOOSE LIFTS TO 95 % MAXIMUM DENSITY PER ASTM D-1557 AND THE REMAINING 12 INCH SPACE SHALL BE FILLED WITH CRUSHED AGGREGATE MDOT- 22A COMPACTED IN 6 INCH LAYERS TO 98% MAXIMUM DENSITY PER ASTM D-1557. ALL COMPACTION SHALL BE SUPERVISED BY A COMPETENT TESTING LABORATORY RETAINED BY THE CONTRACTOR AND APPROVED BY THE ARCHITECT.
8. BACKFILL AGAINST GRADE BEAMS OR WALLS SHALL CONSIST OF GRANULAR FILL FREE OF ORGANICS AND NO MORE THAN 3 PERCENT SILT OR CLAY WITH PARTICLE SIZE LESS THAN 4 INCHES IN DIAMETER AND PASSING NO.4 SIEVE BY 25 TO 70 PERCENT NOTIFY ARCHITECT/ENGINEER IF POOR SOIL CONDITIONS ARE FOUND AT THE SITE. BACKFILL SHALL BE PLACED IN 8 INCH LOOSE LIFTS AND COMPACTED TO 95% MAXIMUM DENSITY PER ASTM D-1557 ON BOTH SIDES OF THE STRUCTURE BY HAND COMPACTORS. HEAVY COMPACTING ROLLERS SHALL BE KEPT 10 FEET CLEAR OF THE STRUCTURE.
9. NO FROZEN MATERIAL SHALL BE USED AS FILL AND NO FILL SHALL BE PLACED ON FROZEN GROUND.
10. USE ONLY CLEAN COMPACTED SAND UNDER THE FLOOR SLAB AND PAVED AREAS WHERE AGGREGATE BASE COURSE IS NOT SPECIFIED. PLACE FOUNDATIONS ON UNDISTURBED SOIL, U.N.O. VERIFY IN THE FIELD BY TEST AS REQUIRED THE BEARING CAPACITY UNDER FOOTINGS.
11. WHERE FOOTINGS CHANGE ELEVATIONS, STEP DOWN FOOTINGS ON FIRM BEARING AT THE RATE OF ONE FOOT VERTICAL TO TWO FEET HORIZONTAL. WALL AND PIER FOOTINGS SHALL BE A MIN. OF 12 INCH THICK AND SHALL PROJECT A MINIMUM OF 6" BEYOND THE FACE OF WALLS, PIERS, STACKS, ETC., UNO.
12. UNLESS OTHERWISE NOTED, PROVIDE (2) #5 ADDITIONAL BARS AROUND ALL OPENINGS IN WALL OR SLAB. EXTEND BARS 2 FEET BEYOND OPENING IN TO THE WALL OR SLAB.
13. PLACE SLAB ON GRADE IN CHECKERBOARD PATTERN OR IN AN ALTERNATE LANES. CONSTRUCTION JOINTS OR CONTROL JOINTS SHALL BE PROVIDED SPACED NO GREATER THAN 20 FEET, UNLESS SHOWN OTHERWISE.
14. SLAB ON GRADE SHALL BE 5" THICK WITH SMOOTH FLOAT FINISH.
15. CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING SIZE, LENGTH, AND LOCATION OF REINFORCING INTENDED POURING SEQUENCE AND LOCATION OF CONSTRUCTION JOINTS TO ARCHITECT FOR REVIEW.
16. BEFORE PLACING THE PIT MAT SPREAD AT NO COST TO THE OWNER ONE 94 LB. BAG OF DRY CEMENT PER 3 SY OF AREA AT THE BOTTOM OF THE EXCAVATION WHENEVER THE SOIL AT THE BOTTOM IS COMPOSED OF MORE THAN 16 PERCENT SILT AS DETERMINED BY THE TESTING AGENCY.

FOUNDATION & EARTH WORK

1. FOOTINGS SHALL BEAR ON THE FIRM UNDISTURBED SOIL WITH A SAFE NET CAPACITY OF 1,500 PSF. IF SOIL OF THIS CAPACITY IS NOT FOUND AT THE ELEVATIONS INDICATED, FOOTINGS SHALL BE ENLARGED OR LOWERED AT THE DIRECTION OF THE ENGINEER. VERIFY FOUNDATION SOIL BEARING PRESSURE IN FIELD BY SOILS ENGINEER.
2. EXCAVATION OF FILLS, ORGANIC MATERIALS AND OTHER UNSUITABLE MATERIAL IS TO BE REMOVED UNTIL THE MIN. SOIL BEARING IS OBTAINED PER AN ONSITE SOILS ENGINEER. PAD FOOTING IS TO EXTEND TO THAT POINT. IF WATER IS ENCOUNTERED DOING EXCAVATION, CONTRACTOR TO CONSULT WITH DEWATERING CONTRACTOR FOR RECOMMENDATIONS.
3. ALL FOOTINGS SHALL BE PLACED ONTO COMPACTED SUB GRADE OR ENGINEERED FILL (95% MINIMUM DENSITY AT OPTIMUM MOISTURE CONTENT). FOOTING ELEVATIONS SHOWN DESIGNATE A MINIMUM DEPTH OF FOOTINGS WHERE A SAFE SOIL BEARING PRESSURE OF 3000 PSF FOR COLUMNS AND WALL FOOTINGS IS EXPECTED. UNDERCUT AND PROVIDE ENGINEERED FILL AS NECESSARY TO ACHIEVE BEARING CAPACITY INDICATED.
4. ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND CERTIFIED. CONTRACTOR TO SUBMIT TESTING REPORT TO CITY.
5. NO FOOTINGS SHALL BE PLACED ONTO OR AGAINST SUB GRADES CONTAINING FROST OR ICE. CROSS REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS TO ASSURE PROPER DIMENSIONS AND PLACEMENT OF ALL ANCHORS BOLTS, INSERTS, ETC.
6. AFTER EXCAVATING FOR ALL EARTH-SUPPORTED FLOOR AND STAIR SLABS, THE EXPOSED NATURAL SOIL SHALL BE THOROUGHLY COMPACTED PRIOR TO PLACING FILL.

DESIGN LOADS:

THE STRUCTURE IS DESIGN FOR THE FOLLOWING LIVE LOADS, IN ADDITION TO THE LATERAL LOADS AND SUPERIMPOSED DEAD LOADS AND SELF-WEIGHT OF THE STRUCTURE.
BUILDING OCCUPANCY CATEGORY: II

LIVE LOADS:

1. ROOF SNOW LOAD
   - A. GROUND SNOW LOAD: 25 PSF
   - B. FLAT ROOF SNOW LOAD (PI): (MIN ROOF LOAD): 20 PSF
   - C. SNOW EXPOSURE FACTOR (Ce): 1.0
   - D. SNOW LOAD IMPORTANCE FACTOR (I): 1.0
   - E. THERMAL FACTOR (Ct): 1.0
   - F. ADDITIONAL LOADING DUE TO DRIFTING AT CHANGES IN ROOF ELEVATIONS AND ICE AT OVERHANGS PER APPLICABLE CODE.

TOTAL ROOF DESIGN LOAD: 35 PSF

SECOND FLOOR DESIGN LOADS:

G. DEAD LOAD	50 PDF
H. LIVE LOAD (CLASSROOMS):	60 PSF
I. LIVE LOAD (HALLWAYS):	100 PSF

WIND LOAD:

1. BASIC WIND SPEED (3-SECOND GUST): 115 MPH
2. RISK CATEGORY FACTOR: II
3. EXPOSURE CATEGORY: A
4. INTERNAL PRESSURE COEFFICIENT: +/- 0.18
5. MAIN FORCE RESISTING STRUCTURAL SYS (EQUIVALENT STATIC FORCE):
6. MIN UNIFORM: 16 PSF

EARTHQUAKE DATA:

1. OCCUPANCY CATEGORY: II
2. MAPPED SPECTRAL RESPONSE ACCELERATION Ss=0.085g & S1=0.044g
3. SITE CLASS D
4. SPECTRAL RESPONSE COEFFICIENTS SDs=0.091g & SD1=0.071g
5. SEISMIC DESIGN CATEGORY A
6. SECTION 11.7 (ASCE7-10) DESIGN REQUIREMENT FOR SDC A
7. DESIGN BASE SHEER Fx=0.01Wx
8. Cs=SDs / (R/I)
9. RESPONSE MODIFICATION FACTOR R=5
10. SECTION 11.7 (ASCE7-10) DESIGN REQUIREMENT FOR SDC A

STRUCTURAL STEEL:

1. THE STRUCTURAL INTEGRITY OF THE BUILDING SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION ACCORDING TO THE PLANS AND SPECIFICATIONS. STRUCTURAL MEMBERS ARE NOT SELF-BRACING UNTIL PERMANENTLY AFFIXED TO THE STRUCTURE AS DIRECTED. THE ARCHITECT/STRUCTURAL ENGINEERS ASSUME NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION. MEANS AND METHODS OF CONSTRUCTION AND JOB SITE SAFETY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR'S.
2. ALL STRUCTURAL STEEL CONSTRUCTION TO CONFORM TO AISC-360 "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND AISC CODE OF STANDARD PRACTICE, UNLESS MODIFIED.
3. ALL DETAILING FABRICATION AND ERECTION SHALL CONFORM TO MBC SECTION 2204 CODE, THE LATEST EDITION OF "AISC SPECIFICATION FOR STRUCTURAL FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND BRIDGES.
4. CONTRACTOR TO USE AISC SPECIFICATIONS FOR THE MANUFACTURE OF ALL STRUCTURAL STEEL MEMBERS WITH TENSILE YIELD STRENGTH FY = 50 KSI, AND WHICH SHALL CONFORM TO ASTM A-992 STANDARDS, AND SHALL SUBMIT SHOP DRAWINGS. ALL STRUCTURAL STEEL SHALL BE ASTM A-992 (UNLESS NOTED OTHERWISE) HAVING Fy=50,000 PSI.
5. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B OR ASTM A501. SEE DRAWING FOR EACH APPLICATION.
6. ALL DRAWINGS SHOW THE INTENT AND CONCEPT OF THE CONNECTIONS BUT NOT THE DETAIL OF BOLTS AND WELDS. ALL CONNECTIONS NOT DETAILED SHALL BE DESIGNED, DETAILED AND MANUFACTURED BY THE FABRICATOR.
7. SHOP CONNECTIONS SHALL BE WELDED FIELD CONNECTIONS USE E70XX ELECTRODES, RUN PARALLEL TO THE TENSION MEMBERS, AND USE HIGH STRENGTH BOLTS WITH WASHER AND NUT.
8. FIELD BOLT CONNECTIONS WITH ASTM A-325 OR ASTM A-490.
9. PROVIDED PERIMETER STEEL. ANGLES FOR METAL. ROOF DECK SUPPORT AS REQUIRED., INCLUDING AROUND ALL ELEVATORS, STAIRS, AND OPENINGS IN FLOOR OR ROOF.
10. ALL WELDING TO CONFORM TO AWS D1.1 "STRUCTURAL WELDING CODE". E 70 XX LOW HYDROGEN ELECTRODES CONFORMING TO AWS SPECIFICATION A5.1 SHALL BE USED FOR WELDING.
11. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS USING ELECTRIC ARC METHODS IN ACCORDANCE WITH LATEST EDITION OF "AWS CODE FOR WELDING IN BUILDING CONSTRUCTION". E70XX ELECTRODES TO BE USED.
12. UNLESS OTHERWISE NOTED, ALL FIELD CONNECTIONS SHALL BE FASTENED WITH 3/4 INCH DIAMETER ASTM A325-X, BEARING TYPE (WITH THREADS EXCLUDED FROM SHEAR PLANE) BOLTS.
13. UNLESS OTHERWISE SHOWN, ALL BEAM END CONNECTIONS SHALL BE DESIGNED TO SUPPORT ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY SHOWN IN AISC MANUAL FOR GIVEN BEAM, SPAN AND AND GRADE OF STEEL SPECIFIED. FOR COMPOSITE BEAM CONNECTIONS SHALL BE DESIGNED FOR THREE-FOURTH OF THE TOTAL UNIFORM LOAD CAPACITY.
14. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A-307-00.
15. MINIMUM CONNECTION SHALL BE 3/4 INCH DIAMETER BOLTS OR A WELD DEVELOPING A FORCE OF 10 KIPS.
16. PAINT ONE COAT OF PRIMER ON ALL EXPOSED SURFACES EXCEPT FOR THE FOLLOWING SURFACES WHICH WILL NOT BE PAINTED :
    - A. SURFACES THAT ARE IN CONTACT WITH CONCRETE.
    - B. CONTACT SURFACES IN FRICTION TYPE CONNECTIONS.
    - C. SURFACES WHICH METAL FLOOR DECK AND/OR SHEAR STUDS ARE TO BE WELDED.
    - D. SURFACES TO BE WELDED SHALL NOT BE PAINTED WITHIN THREE INCHES OF THE WELD.
17. THE CONTRACTOR SHALL FURNISH AND INSTALL STEEL. ANGLES WITH ANCHORS AT MECHANICAL CURBS WHERE INDICATED.
18. FLOOR AND ROOF OPENINGS ARE TO BE FRAMED WITH STEEL. ANGLES AS INDICATED. FRAMES TO BE CONNECTED TO THE PANEL POINTS OF BAR JOISTS OR GIRDERS AND TRUSSES.
19. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL ANGLES, PLATES, BARS, CLIPS, ETC., ATTACHED TO STRUCTURAL STEEL. VERIFY EXACT SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS WITH CONTRACTOR INVOLVED.
20. PROVIDE "DUR-O-WALL" RE-STEEL: USE No. 8 LADDER TYPE ONLY, BLOCKWORK - EVERY 24" STEEL FABRICATOR TO PROVIDE SHOP DRAWINGS FOR ARCHITECTS APPROVAL PRIOR TO FABRICATION. THE SHOP DRAWINGS SHALL INCLUDE CONNECTION DETAILS FOR ALL STRUCTURAL STEEL MEMBERS. SPECIFY THAT STEEL JOIST AND JOIST GIRDER STRUCTURAL
21. NO COMBUSTIBLES IN PLENUM SPACE

REINFORCING STEEL:

1. DETAILING AND PLACING OF REINFORCING SHALL CONFORM TO AIC MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.
2. SECURE REBAR AND HOLD IN PLACE WITH GALVANIZED METAL ACCESSORIES, OR PLASTIC BOOTED CHAIRS.
3. ALL RE-STEEL SHALL BE INTERMEDIATE GRADE NEW BILLET STEEL, ASTM 15.
4. PLACE (2) #5 BARS CONTINUOUS IN TOP AND BOTTOM OF ALL WALL FOOTINGS, GRADE BEAMS,AND AT THE SIDES OF ALL OPENINGS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
5. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL CONCRETE WALLS 12" THICK SHALL BE REINFORCED WITH #4 @ 12" EACH WAY, AT EACH VERTICAL FACE.
6. ANCHOR BOLT SIZE AND LOCATION SHALL BE FURNISHED BY BUILDING OR EQUIPMENT MANUFACTURER, AND SHALL BE INSTALLED BY THIS CONTRACTOR FROM APPROVED SHOP DRAWINGS.

CONCRETE WORK:

1. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-14 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AND ACI STANDARD 301-99 BY AMERICAN CONCRETE INSTITUTE, AND CRSI STANDARD FOR PLACING CONCRETE.
2. DETAILS AND DETAILING OF CONCRETE REINFORCEMENT SHALL CONFORM TO ACI 315-99 STANDARDS AND ALSO TO THE MANUAL OF STANDARD PRACTICES AS PUBLISHED BY CRSI.
3. UNLESS OTHERWISE NOTED ALL CONCRETE SHALL BE NORMAL WEIGHT AND SHALL DEVELOP MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS:
   TRENCH AND PAD FOOTINGS ....3,000 PSI
   FOUNDATION WALLS AND PIERS ....3,000 PSI
   INTERIOR SLAB-ON-GRADE ....3,000 PSI
   EXTERIOR SLAB ON GRADE ....3,500 PSI (AIR ENTRAINED)
4. CONCRETE OVER METAL DECK FOR SUPPORTED FLOORS AS INDICATED ON THE PLANS SHALL BE 145 PCF AND SHALL DEVELOP MINIMUM COMPRESSIVE STRENGTH OF MIN. 2,500 PSI AT 28 DAYS.
5. CONCRETE EXPOSED TO WEATHER SHALL BE AIR -ENTRAINED. AIR CONTENT TO BE 6% +/- 1 %
6. ALL REINFORCING STEEL SHALL BE DEFORMED BARS GRADE 60 CONFORMING TO THE LATEST EDITION OF ASTM A-615/A 615M-00 OR ASTM-616 AND HAVE A MINIMUM YIELD STRENGTH OF 60000 PSI
7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185-85 USING COLD DRAWN WIRE CONFORMING TO ASTM A82-01.
8. UNLESS OTHERWISE NOTED, MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE 3/4 INCH FOR SLABS, 1.5 INCH FOR BEAMS, COLUMNS AND PIERS, AND 1 INCH FOR WALLS. ALL CONCRETE EXPOSED TO WEATHER OR EARTHFILL SHALL HAVE A MINIMUM COVER OF 1.5 INCHES FOR #5 BARS OR SMALLER, 2 INCH FOR BARS LARGER THAN #5 AND 3 INCH FOR CONCRETE PLACED AGAINST EARTH.
9. VERIFY LOCATION AND DIMENSION OF ALL OPENINGS AND ALL EMBEDDED SLEEVES, FLOOR DRAINS, ROOF SUMPS, ETC., AS REQUIRED FOR DIFFERENT TRADES PRIOR TO POURING OF CONCRETE.
10. UNLESS OTHERWISE NOTED, PROVIDE VERTICAL DOWELS FROM FOOTINGS TO PIERS AND TO WALLS OF SAME SIZE AND SPACING AS VERTICAL REINFORCING. OFFSET FOR DOWELS AS REQUIRED. DOWELS TO EXTEND 24 BAR DIAMETERS INTO EACH MEMBER AT THE JOINT.
11. CONSTRUCTION JOINTS SHALL BE PLACED AT THE CENTER OF SPANS WITH A VERTICAL BULKHEAD.
12. SLABS, BEAMS AND FOOTINGS SHALL BE PLACED WITH OUT HORIZONTAL JOINTS.
13. PROVIDE HORIZONTAL BENT BARS AT ALL CORNERS AND INTERSECTIONS OF CONCRETE WALL OR GRADE BEAMS OF SAME SIZE AND SPACING AS HORIZONTAL WALL OR BEAM REINFORCING. USE BENT DOWELS TO DEVELOP ANCHORAGE, IF NECESSARY. DOWELS TO EXTEND 24 BAR DIAMETERS INTO EACH MEMBER.

STEEL JOISTS:

1. ALL PROVISIONS OF THE RECOMMENDED CODE OF STANDARD PRACTICE FOR STEEL JOISTS AS ADOPTED BY THE STEEL JOIST INSTITUTE SHALL BE ADHERED TO.
2. STEEL JOIST BEARING ON STEEL BEAMS OR PLATES TO BE WELDED TO STEEL WITH 2" LONG PER "SJI". EXTEND BOTTOM CHORDS OF JOISTS AT COLUMNS TO A STABILIZER TAB. IF NO JOIST OCCURS AT COLUMNS, EXTEND BOTTOM CHORDS OF EACH ADJACENT JOIST AND CONNECT.
3. STEEL JOISTS OR JOIST GIRDERS ARE TO BE FABRICATED BY A MEMBER OF THE STEEL JOIST INSTITUTE AND BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE STEEL JOIST INSTITUTE.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS THAT CONFORM TO THE STANDARDS OF THE STEEL JOIST INSTITUTE (SJI) SPECIFICATIONS.
5. PROVIDE X-BRACING AND BOTTOM CHORD BRACING AT LOCATIONS INDICATED BY MANUFACTURER AND SHALL COMPLY WITH SJI STANDARDS.
6. COLD FORMED CHORDS ARE NOT PERMITTED.
7. ALL HANGERS FOR CEILINGS, DUCTWORK, ELECTRICAL CONDUIT, PIPING, ETC. SHALL BE HUNG DIRECTLY OR SUPPORTED FROM OR AT THE PANEL POINTS OF THE JOIST.
8. JOISTS SHALL HAVE ONE SHOP COAT OF PAINT. CHECK WITH ARCHITECT FOR COLOR.
9. MECHANICAL FRAMING , OPENINGS AND STRUCTURE IN ANY WAY RELATED TO MECHANICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF MECHANICAL AND OTHER TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS TO BE BORNE BY MECHANICAL CONTRACTOR.
10. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND COORDINATING ALL UNITS AND ANY ROOF / FLOOR OPENINGS SUPPORTS WITH STEEL JOISTS FABRICATOR FOR FINAL SELECTION OF UNITS / EQUIPMENTS. UNITS SPECIFICATION SHEETS SHALL BE SUBMITTED TO ARCHITECT AND JOISTS MANUFACTURER PRIOR TO JOIST FABRICATION.

SPECIAL INSPECTIONS:

BUILDER SHALL BE SELECT AND PROVIDE A THIRD PARTY TESTING AGENCY - PER SECTION. 1705 MBC 2015.
THE SPECIAL INSPECTIONS SHALL INCLUDE:

SECTION 1705.2	STEEL CONSTRUCTION
SECTION 1705.3	CONCRETE CONSTRUCTION
SECTION 1705.4	MASONRY CONSTRUCTION
SECTION 1705.6	SOILS

METAL DECK:

1. METAL DECK SHALL CONFORM TO ALL REQUIREMENTS OF "BASIC DESIGN SPECIFICATION" AS ADOPTED BY THE STEEL DECK INSTITUTE (S.D.I.).
2. ALL METAL DECK WORK SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF AISI, SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS, AWS-STRUCTURAL WELDING CODE D1-1, STEEL DECK INSTITUTE.
3. UNLESS NOTED, ROOF DECK SHALL BE MANUFACTURED FROM STEEL CONFORMING TO ASTM A1008, 33 KSI.
4. LOADS SHALL NOT BE HUNG FROM ROOF DECK.
5. METAL DECK TO BE CONNECTED TO SUPPORTING MEMBERS AS PER RECOMMENDATION BY SDI OR AS SPECIFIED.
6. THE CONTRACTOR SHALL FURNISH ALL ACCESSORIES INCLUDING CLOSURES, "Z" CLOSURES, COLUMN CLOSURES, SCREED ANGLES AND GIRDER FILLERS, AS REQUIRED.
7. ROOF DECK SHALL HAVE MANUFACTURER'S STANDARD RUST INHIBITIVE PAINT.
8. METAL DECK SHALL BE CONTINUOUS OVER THREE SPANS WHEREVER INDICATED. SINGLE AND DOUBLE SPANS SHALL COMPLY WITH "STEEL DECK INSTITUTE" REQUIREMENT.
9. ALL METAL DECKING SHALL BE WELDED TO THE STEEL BEAM WITH A 3/4 INCH PLUG WELD AT THE FLUTES NOT EXCEEDING 12 INCHES APART.
10. ALL INTERIOR ROOF SUMPS SHALL HAVE AN OVER FLOW 3" ABOVE ROOF SURFACE

MASONRY WORK:

1. MATCH EXISTING BRICK FOR THE ADDITION AND VERIFY WITH OWNER.
2. PROVIDE MASONRY CONTROL JOINTS FOR ALL MASONRY WALLS AT A MAXIMUM 20'-0" APART AND MAXIMUM OF 5'-0" FROM EACH WALL CORNER. BOND BEAM STEEL TO CONTINUE THROUGH JOINTS.
3. MASONRY CONSTRUCTION/ DESIGN STANDARD TO COMPLY WITH ACI 530-11/ ASCE 5-11 / TMS 402 "AMERICAN STANDARD BUILDING CODE REQUIREMENT FOR MASONRY" BY US DEPARTMENT OF COMMERCE, MISC.PUB. 211 AND ASA A41
4. THE REFERENCE MATERIAL STANDARD FOR EACH MASONRY CONSTRUCTION MATERIAL USED ON THIS PROJECT INCLUDING MASONRY UNITS, MORTAR AND METAL ACCESSORIES.

MASONRY:	ASTM C90-01a FOR CONCRETE BLOCK
	ASTM C62-01 FOR BRICK
	ASTM C270-01a FOR MORTAR
REINF WIRE:	ASTM A82-01

5. BLOCK - GRADE A, LOAD BEARING UNITS ASTM-C90-01a, IN ACCORD WITH CONCRETE MASONRY ASSOCIATION SPECIFICATIONS.
6. ALL MASONRY BEARING STEEL BEAMS AND LINTELS TO BEAR 8" MINIMUM ON THREE COURSES SOLID MASONRY, WITH 2 - 3/4" BOLTS EACH END, UNLESS OTHERWISE NOTED.
7. PROVIDE BULLNOSE EDGE FOR ALL EXPOSED CMU EDGES. SEE TYPICAL MASONRY DETAILS.
8. UNLESS OTHERWISE NOTED, PROVIDE 4" x 4" x 5/16" ANGLE (L.L.V.) LINTEL FOR EACH 4" OF MASONRY FOR SPANS UP TO 5'-0" MAXIMUM.
9. ALL DOUBLE ANGLE LINTELS SHALL BE WELDED BACK TO BACK WITH A 3/16" FILLER WELD WITH MINIMUM 2 INCH STITCH WELD EVERY 8 INCHES.
10. MASONRY COMPRESSIVE STRENGTH F'm TO BE 1,500 PSI (MINIMUM) ALL BLOCK SHALL CONFORM WITH ASTM C90-01a AND C145, TYPE 1, GRADE N. MORTAR- TYPE M OR S, 1,900 PSI. MORTAR - TYPE TO CONFORM TO ASTM C270-01a.
11. UNLESS OTHERWISE NOTED, PROVIDE 4" x 3 1/2" x 5/16" ANGLE (L.L.V.) LINTEL FOR EACH 4" OF MASONRY FOR SPANS UP TO 5'-0" MAXIMUM.
12. ALL MASONRY BEARING STEEL BEAMS AND LINTELS TO BEAR 8" MINIMUM ON THREE COURSES SOLID MASONRY, WITH 2 - 3/4" BOLTS EACH END, UNLESS OTHERWISE NOTED.
13. PROVIDE "DUR-O-WALL" REINFORCEMENT STAGGERED AT 16" O.C. USE LADDER TYPE WITH ADJUSTABLE VENEER TIES FOR ALL BLOCK AND BRICK VENEER WALLS.

ABBREVIATIONS:

AFF	ABOVE FINISH FLOOR	FOM	FACE OF MASONRY
ALUM	ALUMINUM	FTG	FOOTING
ANOD	ANODIZED	GALV	GALVANIZED
AT	ACOUSTICAL TILE	GC	GENERAL CONTRACTOR
BC	BOTTOM CHORD	GL	GLASS
BRD	BOARD	GB	GRAB BAR
BFF	BELOW FINISH FLOOR	GYP	GYPSUM
BLK	BLOCK	HM	HOLLOWED METAL
BM	BEAM	HVAC	HEATING & VENT.
B.O.	BOTTOM OF	INSUL.	INSULATION
BOF	BOTTOM OF FOOTING	JST	JOIST
B.U.	BUILT UP	JT	JOINT
CAB	CABINET	LD	LIVE LOAD
C.B.	CATCH BASINS	LP	LIGHT POLE
C	OLD	MAS	MASONRY
CER	CERAMIC	MAX	MAXIMUM
C.J.	CONTROL JOINT	MCM	METAL COMPOSITE MATERIAL
C.L.	CENTER LINE		
CLG	CEILING	INSUM.	MECHANICAL
CLOS	CLOSET	MFG	MANUFACTURER
C.O.	CLEAN OUT	MIN	MINIMUM
CM	CONSTRUCTION MANAGER	M.O.	MASONRY OPENING
COL	COLUMN	MTL.	METAL
CONC	CONCRETE	O.D.	ON CENTER
CONT	CONTINUOUS	OPH	OPPOSITE HAND
DEFS	DIRECT APPLIED FINISH SYSTEM	NIC	NOT IN CONTRACT
		NTS	NOT TO SCALE
DET	DETAIL	PL	PLATE
DIM	DIMENSION	PSF	POUNDS PER SQUARE FOOT
DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH
DL	DEAD LOAD	PT	PAINT
DN	DOWN	RA	RETURN AIR
D.O.	DOOR OPENING	RD	ROOF DRAIN
DS	DOWN SPOUT	REINF	REINFORCING
DWG	DRAWING	REQ	REQUIRED
EA	EACH	RO	ROUGH OPENING
E.C.	ELEC. CONTRACTOR	SA	SUPPLY AIR
EF	EACH FACE	SIM	SIMILAR
E.J.	EXPANSION JOINT	STL	STEEL
ELEC	ELECTRICAL	STOR	STORAGE
ELEV	ELEVATION	TB	TOWEL BAR
EXH	EXHAUST	TC	TOP CHORD
EX/EXIST	EXISTING	T & B	TOP AND BOTTOM
EXT	EXTERIOR	TBL	TOP OF BRICK LEDGE
EW	EACH WAY	T.O.S.	TOP OF TOP OF STEEL
F&I	FURNISH AND INSTALL	T.O.P.	TOP OF PIER
FD	FLOOR DRAIN	T.O.W.	TOP OF WALL
FFE	FINISH FLOOR ELEVATION	TYP	TYPICAL
FND.	FOUNDATION	U.N.O.	UNLESS NOTED OTHERWISE
FOC	FACE OF CONCRETE	VIF	VERIFY IN FIELD
FOF	FACE OF FINISH	W/	WITH
FOG	FACE OF GYPSUM	WD	WOOD
		WWF	WELDED WIRE FABRIC

AASHO	AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS
A.I.A	AMERICAN INSTITUTE FOR ARCHITECTS
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
CRSI	CONCRETE REINFORCING SOCIETY INSTITUTE.
MBC	MICHIGAN BUILDING CODE
MMC	MICHIGAN MECHANICAL CODE
MPC	MICHIGAN PLUMPING CODE
MEC	MICHIGAN ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
UL	UNDERWRITERS LABORATORIES

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN
RESIDENTIAL
COMMERCIAL
INDUSTRIAL
G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM
ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

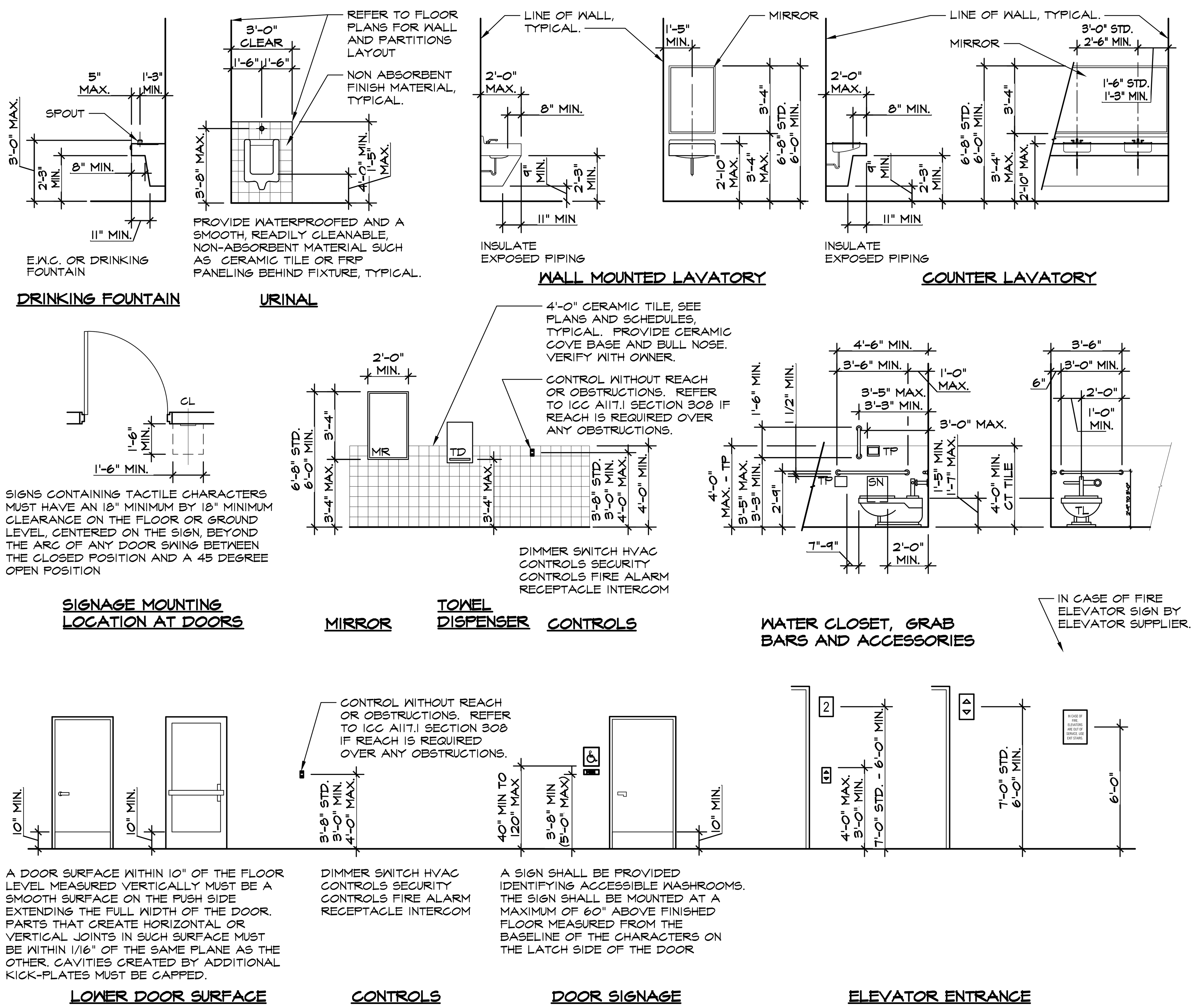
SCALE :

FILE NAME : 19054_A001

JOB #: 19059

SHEET TITLE
GENERAL NOTES AND SPECIFICATIONS

SHEET #
A.001



TYPICAL RESTROOMS BARRIER FREE MOUNTING HEIGHTS AND REQUIREMENTS

NOT TO SCALE

ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOOR	BASE	WALLS NORTH	EAST	SOUTH	WEST	CEILING	CEILING HEIGHTS	REMARKS
LOWER LEVEL										
001	CORRIDOR	CPT	WD	PNT	PNT	PNT	PNT	ACT-1	10'-6"	SEE NOTE #2
001A	CORRIDOR	CPT	WD	PNT	PNT	PNT	PNT	ACT-4	10'-6"	SEE NOTE #2
001B	CORRIDOR	CPT	WD	PNT	PNT	PNT	PNT	ACT-4	10'-6"	SEE NOTE #2
001C	PASSAGEWAY	CPT	WD	PNT	PNT	PNT	PNT	ACT-1	10'-6"	SEE NOTE #2
001D	PASSAGEWAY	CPT	WD	PNT	PNT	PNT	PNT	ACT-1	10'-6"	SEE NOTE #2
002	MULTIPURPOSE ROOM	CPT	WD	PNT	PNT	PNT	PNT	ACT-2/ ACT-3/PNT	9'-4" 10'-6"	SEE NOTE #2
003	MEN'S RESTROOMS	PCT	CTB	PCT	PCT	PCT	PCT	ACT-1/PNT	11'-0" 9'-8"	SEE NOTE #2
004	NORTH STAIRS	RST	RB	CMU/PNT	CMU/PNT	CMU/PNT	CMU/PNT	EXP/PNT		SEE NOTE #2
005	MEETING ROOM	CPT	WD	PNT	PNT	PNT	PNT	ACT-2/PNT	10'-6" 10'-0"	SEE NOTE #2
006	OFFICE	CPT	RB	PNT	PNT	PNT	PNT	ACT-1	10'-6"	
007	OFFICE	CPT	RB	PNT	PNT	PNT	PNT	ACT-1	10'-6"	
008	PASTOR'S OFFICE	CPT	RB	PNT	PNT	PNT	PNT	ACT-1	10'-6"	
009	CLASSROOM #9	CPT	RB	PNT	PNT	PNT	PNT	ACT-1	10'-6"	
010	CLASSROOM #8	CPT	RB	PNT	PNT	PNT	PNT	ACT-1	10'-6"	
011	MAIN ELECTRICAL ROOM	CON	RB	PNT	PNT	CON/PNT	PNT	EXPOSED		SEE NOTE #4
012	STORAGE	CON	RB	PNT	CON/PNT	CON/PNT	PNT	EXPOSED		SEE NOTE #4
013	WOMEN'S RESTROOMS	PCT	CTB	PCT	PCT	PCT	PCT	ACT-1/PNT	11'-0" 9'-8"	SEE NOTE #2
014	SOUTH STAIRS	RST	RB	CON/PNT	CMU/PNT	CON/PNT	CMU/PNT	EXP/PNT		SEE NOTE #3 & #4
015	CONFERENCE ROOM	PCT	RB	PNT	PNT	PNT	PNT	ACT-2/PNT	10'-6" 10'-0"	SEE NOTE #2
016	WARMING KITCHEN	PCT	CTB	PNT	PNT	PNT	PNT	ACT-1	10'-6"	
017	CLASSROOM #1	CPT	RB	PNT	PNT	PNT	PNT	ACT-1	10'-6"	
018	CLASSROOM #2	CPT	RB	PNT	PNT	PNT	PNT	ACT-1	10'-6"	
019	CLASSROOM #3	CPT	RB	PNT	PNT	PNT	PNT	ACT-1	10'-6"	
019A	RESTROOM	PCT	CTB	PCT	PCT	PCT	PCT	ACT-1/PNT	10'-6"	SEE NOTE #2
020	CLASSROOM #4	CPT	RB	PNT	PNT	PNT	PNT	ACT-1	10'-6"	
020A	RESTROOM	PCT	CTB	PCT	PCT	PCT	PCT	ACT-1/PNT	10'-6"	SEE NOTE #2
021	CLASSROOM #5	CPT	RB	PNT	PNT	PNT	PNT	ACT-1	10'-6"	
022	CLASSROOM #6	CPT	RB	PNT	PNT	PNT	PNT	ACT-1	10'-6"	
022A	RESTROOM	PCT	CTB	PCT	PCT	PCT	PCT	ACT-1/PNT	10'-6"	SEE NOTE #2
023	CLASSROOM #7	CPT	RB	PNT	PNT	PNT	PNT	ACT-1	10'-6"	
023A	RESTROOM	PCT	CTB	PCT	PCT	PCT	PCT	ACT-1/PNT	10'-6"	SEE NOTE #2
024	OFFICE	CPT	RB	PNT	PNT	PNT	PNT	ACT-1	10'-6"	
025	OFFICE	CPT	RB	PNT	PNT	PNT	PNT	ACT-1	10'-6"	
026	JANITOR CLOSET	CON	RB	CMU/PNT	PNT	PNT	CON/PNT	EXPOSED		SEE NOTE #4
027	ELECTRICAL CLOSET	CON	RB	CON/PNT	CMU/PNT	PNT	PNT	EXPOSED		SEE NOTE #4
028	STORAGE	CON	RB	PNT	CMU/PNT	CON/PNT	PNT	EXPOSED		SEE NOTE #4
GROUND LEVEL										
100	VESTIBULE	PCT	RB	GLZ	GLZ	GLZ	GLZ/PNT	AL-04 & 4A/PNT	VARIES +/- 13'-6"	SEE NOTE #5 & #6
101	MAIN LOBBY	CPT	WB		GLZ/PNT		GLZ/PNT	ACP-1/PNT	22'-0"	SEE NOTE #5
101A	NORTH NARTHEX	CPT	WB	PNT	GLZ/PNT		GLZ/PNT	ACT-4	14'-0"	SEE NOTE #2
101B	SOUTH NARTHEX	CPT	WB		GLZ/PNT	PNT	GLZ/PNT	ACT-4	14'-0"	SEE NOTE #2
101C	PASSAGEWAY	CPT	WB	PNT	PNT	PNT		ACT-1/PNT	12'-0" 10'-0"	SEE NOTE #2
101D	PASSAGEWAY	CPT	WB	PNT	PNT	PNT		ACT-1/PNT	12'-0" 10'-0"	SEE NOTE #2
102	SANCTUARY	CPT	WB	PNT	PNT	PNT	GLZ/PNT	ACT-3/PNT	17'-6" 16'-0"	SEE NOTE #2 & #5
102A	ALTER	CPT	WB	PNT	PNT	PNT		ACT-3/PNT	17'-10" 16'-6"	SEE NOTE #2
103	MEN'S RESTROOMS	PCT	CTB	PCT	PCT	PCT	PCT	ACT-1/PNT	12'-0" 10'-8"	SEE NOTE #2
104	NORTH STAIRS	RST	RB	CMU/PNT	CMU/PNT	CMU/PNT	CMU/PNT	ACT-1	12'-0"	SEE NOTE #3 & #4
105	FIRE RISER & METER ROOM	CON	RB	CMU/PNT	PNT	PNT	CMU/PNT	EXPOSED		SEE NOTE #4
106	CONFERENCE ROOM	CPT	WD	PNT	PNT	PNT	PNT	ACT-2/PNT	12'-0" 13'-4"	SEE NOTE #2
107	OFFICE	CPT	RB	PNT	PNT	PNT	PNT	ACT-2	13'-4"	
108	PASTORAL SUITE	CPT	RB	PNT	PNT	PNT	PNT	ACT-2	12'-0"	
109	MEN'S RESTROOMS	PCT	CTB	PCT	PCT	PCT	PCT	ACT-1/PNT	12'-0" 10'-8"	SEE NOTE #2
110	PASTOR'S OFFICE	CPT	RB	PNT	PNT	PNT	PNT	ACT-1	12'-0"	
111	OFFICE	CPT	RB	PNT	PNT	PNT	PNT	ACT-2	12'-0"	
112	AUDIO VISUAL ROOM	CPT	RB	PNT	PNT	PNT	PNT	ACT-2	12'-0"	
113	WOMEN'S RESTROOMS	PCT	CTB	PCT	PCT	PCT	PCT	ACT-1/PNT	12'-0" 10'-8"	SEE NOTE #2
114	SOUTH STAIRS	RST	RB	CMU/PNT	CMU/PNT	CMU/PNT	CMU/PNT	ACT-1	12'-0"	SEE NOTE #3 & #4
115	CONFERENCE ROOM	CPT	WD	PNT	PNT	PNT	PNT	ACT-2/PNT	12'-0" 13'-4"	SEE NOTE #2
116	OFFICE	CPT	RB	PNT	PNT	PNT	PNT	ACT-2	12'-0"	
117	OFFICE	CPT	RB	PNT	PNT	PNT	PNT	ACT-2	12'-0"	
118	JANITOR CLOSET	CON	RB	PNT	CMU/PNT	CMU/PNT	PNT	EXPOSED		SEE NOTE #4
119	JANITOR CLOSET	CON	RB	CMU/PNT	CMU/PNT	PNT	PNT	EXPOSED		SEE NOTE #4
120	ELECTRICAL CLOSET	CON	RB	PNT	PNT	PNT	PNT	EXPOSED		SEE NOTE #4
120A	ROOF ACCESS	CON	RB	PNT	PNT	PNT	PNT	EXPOSED		SEE NOTE #4
121	CRY ROOM	CPT	WD	PNT	PNT	PNT	PNT	PNT	12'-0"	
122	CRY ROOM	CPT	WD	PNT	PNT	PNT	PNT	PNT	12'-0"	

ABBREVIATION LEGEND:

ACT-1	2' X 4' LAY-IN ACOUSTICAL TILE CEILING
ACT-2	2' X 4' LAY-IN SCORED ACOUSTICAL TILE CEILING
ACT-3	4' X 4' WOOD LAMINATED AND PERFORATED ACOUSTICAL CEILING WITH CONCEALED SUSPENSION GRID; ARMSTRONG WOODWORKS TEGULAR WITH W4 PERFORATION
ACT-4	RADIAL ACOUSTICAL TILE CEILING SUSPENDED SYSTEM; ARMSTRONG OPTIMA RADIAL.
ACP-1	ACOUSTICAL PANEL ON METAL FURRING. 1" THICK WITH CUSTOM SHAPE AS DEPICTED; ARMSTRONG FELTWORKS ACOUSTICAL PANEL
CMU	CONCRETE MASONRY UNITS, PAINTED
CON	CONCRETE
CPT	CARPET
GLZ	GLAZING SYSTEMS
PCT	PORCELAIN CERAMIC TILE
CTB	PORCELAIN CERAMIC TILE BASE
EXP	EXPOSED
PNT	PAINT
RB	RUBBER BASE
RST	RUBBER STAIR TREAD AND LANDING TILE
VCT	12"X12" VINYL COMPOSITE TILE
WB	WOOD BASE

ROOM FINISH SCHEDULE NOTES:

1. VERIFY ALL CARPET THICKNESS AS SPECIFIED BY ARCHITECT WITH FLOOR STONE AS REQ'D TO RAISE CARPET 3/16" ABOVE STONE FLOOR
2. ALL VINYL TILE TO HAVE A 4" COVED MOULDING.
3. CARPETED FLOORS - PROVIDE BASE AS SCHEDULED.
4. ALL EXPOSED "CONCRETE BLOCK" (CMU) SHALL BE INSTALLED WITH TOOLED JOINTS. ALL EXPOSED "CMU" EXTERNAL WALL CORNERS SHALL BE "BULLNOSED" UNITS.
5. BUILD ALL CONCRETE BLOCK WALLS AND OTHER INTERIOR PARTITIONS TO UNDERSIDE OF STRUCTURE UNLESS OTHERWISE INDICATED.
6. WHERE "CONCRETE" IS INDICATED IN SCHEDULE A FINISHED "CONCRETE FINISH" IS REQUIRED.
7. ALL METAL STUD PARTITIONS SHALL BE HORIZONTALLY BRACED AT 4'-0" O.C. MAXIMUM SPACING AND STUDS SPACED 16" O.C. UNLESS OTHERWISE NOTED.
8. WALLS DEMISING TOILET ROOMS BETWEEN MALE & FEMALE OR BETWEEN OTHER SPACES ADJACENT ARE TO BE CONSTRUCTED W/ STUDS TO UNDERSIDE OF STRUCTURE ABOVE & ARE TO RECEIVE (1) LAYER OF 5/8" GYPSUM BOARD TO DECK ABOVE. WHERE INSULATION IS INDICATED IT IS TO BE FULL HEIGHT IN THESE ASSEMBLIES.
9. ALL EXPOSED STAIR STEEL AND RAILING SHALL BE SHOP PRIMED AND FIELD PAINTED.
10. PROVIDE REDUCER STRIP AT ALL FLOOR MATERIAL TRANSITIONS UNLESS OTHERWISE NOTED.

FINISH SCHEDULE REMARKS NOTES:

1. COORDINATE ALL FINISHES WITH OWNER.
2. REFER TO REFLECTED CEILING PLANS.
3. PROVIDE INTEGRATED ABRASIVE SAFETY STRIP WITH VISUALLY IMPAIRED VISION FINISH AT EACH NOSING.
4. EXPOSED SEALED CONCRETE AND CMU WALLS.
5. REFER TO GLAZING DETAILS AND ELEVATIONS.
6. WALK OFF MATT. REFER TO FLOOR PLANS FOR MORE DETAILS.

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN
RESIDENTIAL
COMMERCIAL
INDUSTRIAL

G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

GAV ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE :

FILE NAME : 19059_A002

JOB #: 19059

SHEET TITLE
GENERAL INFORMATION AND SCHEDULES

SHEET #
A.002

DOOR SCHEDULE

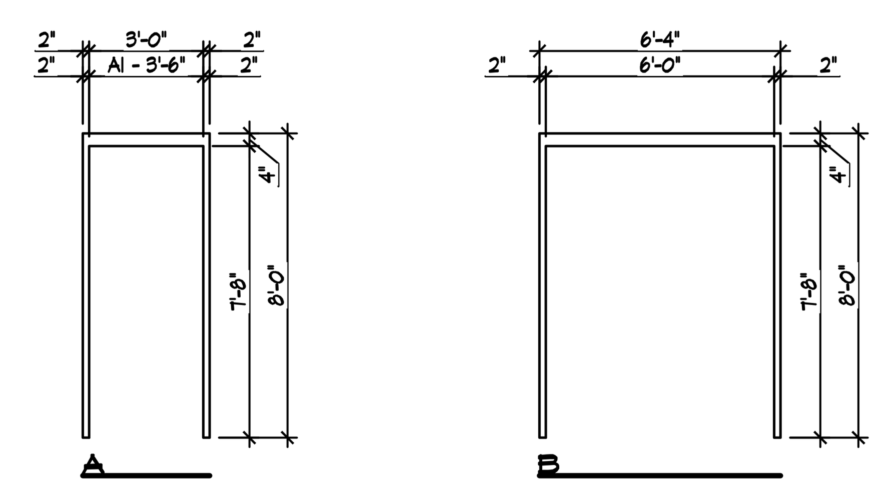
DOOR HARDWARE TO PROVIDED TO OWNER COMPLYING WITH APPLICABLE CODES AND PER GENERAL DOOR SPECIFICATION.

NO.	DOOR SIZE	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	HARDWARE SET	NOTE LEGEND	FIRE RATING	REMARKS
LOWER LEVEL									
002A	(2) 3'-0"x7'-8"x1 3/4"	2	SCW	B	HM				
002B	(2) 3'-0"x7'-8"x1 3/4"	2	SCW	B	HM				
002C	(2) 3'-0"x8'-0"x1 3/4"	4	AL		AL				SEE INTERIOR GLAZING ELEVATIONS NUMBER "010" ON SHEET A.104
003	3'-0"x7'-8"x1 3/4"	1	FRP	A	HM				
004	(2) 3'-0"x7'-8"x1 3/4"	3	FRP	A1	HM			1 HOUR	FIRE RESISTIVE RATED TAMPERED SAFETY GLASS
005	3'-0"x7'-8"x1 3/4"	2	SCW	A	HM				
006	3'-0"x7'-8"x1 3/4"	2	SCW	A	HM				
007	3'-0"x7'-8"x1 3/4"	3	SCW	A	HM				
008A	(2) 3'-0"x7'-8"x1 3/4"	3	FRP	B	HM				
008B	3'-6"x7'-8"x1 3/4"	1A	SCW	A1	HM				
008C	3'-0"x7'-8"x1 3/4"	3	FRP	A	AL				
009	3'-0"x7'-8"x1 3/4"	2	SCW		HM				SEE INTERIOR GLAZING ELEVATIONS NUMBER "010" ON SHEET A.104
010	3'-0"x7'-8"x1 3/4"	2	SCW		HM				SEE INTERIOR GLAZING ELEVATIONS NUMBER "010" ON SHEET A.104
011	3'-0"x7'-8"x1 3/4"	1	HM	A	HM				
012	3'-0"x7'-8"x1 3/4"	1	HM	A	HM				
013	3'-0"x7'-8"x1 3/4"	1	FRP	A	HM				
014	(2) 3'-0"x7'-8"x1 3/4"	3	FRP	A1	HM			1 HOUR	FIRE RESISTIVE RATED TAMPERED SAFETY GLASS
015A	3'-0"x7'-8"x1 3/4"	3	SCW	A	HM				
015B	3'-0"x7'-8"x1 3/4"	3	SCW	A	HM				
016A	(2) 3'-0"x7'-8"x1 3/4"	3	FRP	B	HM				
016B	3'-6"x7'-8"x1 3/4"	1A	SCW	A1	HM				
016C	3'-0"x7'-8"x1 3/4"	3	FRP	A	AL				
017	3'-0"x7'-8"x1 3/4"	2	SCW		HM				SEE INTERIOR GLAZING ELEVATIONS NUMBER "010" ON SHEET A.104
018	3'-0"x7'-8"x1 3/4"	2	SCW		HM				SEE INTERIOR GLAZING ELEVATIONS NUMBER "010" ON SHEET A.104
019	3'-0"x7'-8"x1 3/4"	2	SCW	A	HM				
019A	3'-0"x7'-8"x1 3/4"	1	SCW	A	HM				
020	3'-0"x7'-8"x1 3/4"	2	SCW	A	HM				
020A	3'-0"x7'-8"x1 3/4"	1	SCW	A	HM				
021	3'-0"x7'-8"x1 3/4"	2	SCW	A	HM				
022	3'-0"x7'-8"x1 3/4"	2	SCW	A	HM				
022A	3'-0"x7'-8"x1 3/4"	1	SCW	A	HM				
023	3'-0"x7'-8"x1 3/4"	2	SCW	A	HM				
023A	3'-0"x7'-8"x1 3/4"	1	SCW	A	HM				
024	3'-0"x7'-8"x1 3/4"	2	SCW	A	HM				
025	3'-0"x7'-8"x1 3/4"	2	SCW	A	HM				
026	3'-0"x7'-8"x1 3/4"	1	FRP	A	HM				
027	3'-0"x7'-8"x1 3/4"	1	FRP	A	HM				
028	3'-0"x7'-8"x1 3/4"	1	FRP	A	HM				
029	3'-0"x7'-8"x1 3/4"	1	FRP	A	HM				

DOOR SCHEDULE

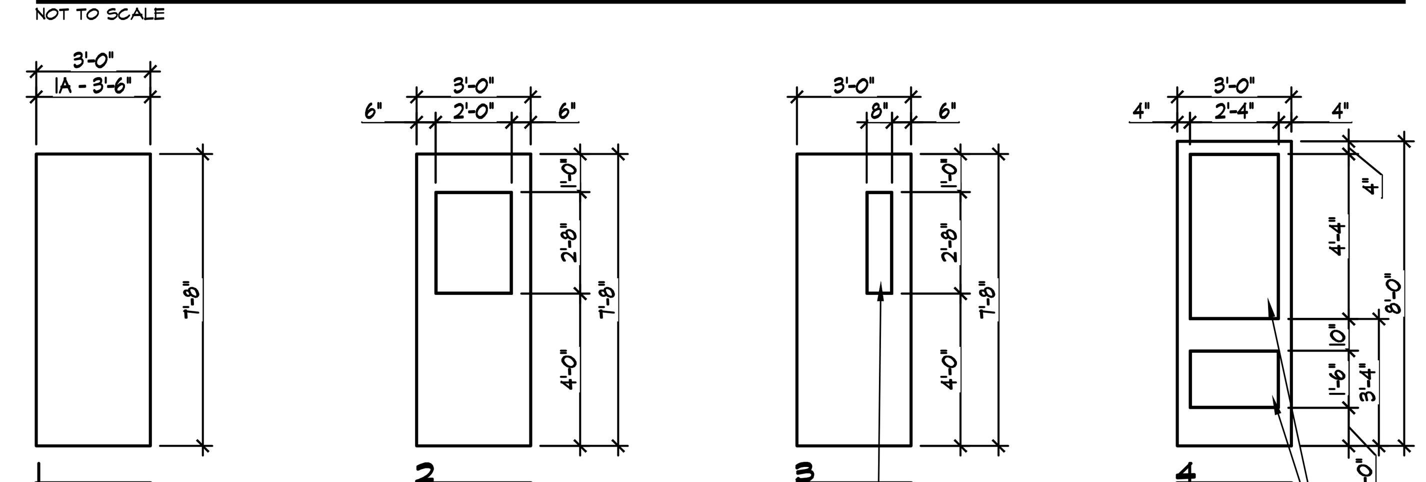
DOOR HARDWARE TO PROVIDED TO OWNER COMPLYING WITH APPLICABLE CODES AND PER GENERAL DOOR SPECIFICATION.

NO.	DOOR SIZE	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	HARDWARE SET	NOTE LEGEND	FIRE RATING	REMARKS
GROUND LEVEL									
100A	(2) 3'-0"x8'-0"x1 3/4"	4	AL		AL				SEE EXTERIOR GLAZING ELEVATIONS NUMBER "002" ON SHEET A.104
100B	(2) 3'-0"x8'-0"x1 3/4"	4	AL		AL				SEE EXTERIOR GLAZING ELEVATIONS NUMBER "002" ON SHEET A.104
100C	(2) 3'-0"x8'-0"x1 3/4"	4	AL		AL				SEE EXTERIOR GLAZING ELEVATIONS NUMBER "IG 004" ON SHEET A.104
100D	(2) 3'-0"x8'-0"x1 3/4"	4	AL		AL				SEE EXTERIOR GLAZING ELEVATIONS NUMBER "IG 004" ON SHEET A.104
102A	(2) 3'-0"x8'-0"x1 3/4"	4	AL		AL				SEE INTERIOR GLAZING ELEVATIONS NUMBER "IG 003" ON SHEET A.104
102B	(2) 3'-0"x8'-0"x1 3/4"	4	AL		AL				SEE INTERIOR GLAZING ELEVATIONS NUMBER "IG 002" ON SHEET A.104
102C	(2) 3'-0"x8'-0"x1 3/4"	4	AL		AL				SEE INTERIOR GLAZING ELEVATIONS NUMBER "IG 002" ON SHEET A.104
102D	3'-0"x8'-0"x1 3/4"	4	AL		AL				SEE INTERIOR GLAZING ELEVATIONS NUMBER "IG 006" ON SHEET A.104
102E	3'-0"x8'-0"x1 3/4"	4	AL		AL				SEE INTERIOR GLAZING ELEVATIONS NUMBER "IG 006" ON SHEET A.104
103	3'-0"x7'-8"x1 3/4"	1	FRP	A	HM				
104A	3'-6"x7'-8"x1 3/4"	3	FRP	A1	HM			1 HOUR	FIRE RESISTIVE RATED TAMPERED SAFETY GLASS
104B	(2) 3'-0"x7'-8"x1 3/4"	2	AL	B	AL				
105	3'-0"x7'-8"x1 3/4"	1	FRP	A	HM				
106	3'-0"x7'-8"x1 3/4"	2	SCW	A	HM				
107	3'-0"x7'-8"x1 3/4"	2	SCW	A	HM				
108A	(2) 3'-0"x7'-8"x1 3/4"	2	SCW	A	HM				
108B	3'-0"x7'-8"x1 3/4"	3	SCW	A	HM				
109	3'-0"x7'-8"x1 3/4"	1	SCW	A	HM				
111	3'-0"x7'-8"x1 3/4"	2	AL	A	AL				SEE INTERIOR GLAZING ELEVATIONS NUMBER "IG 008" ON SHEET A.104
112A	3'-0"x7'-8"x1 3/4"	2	AL	A	AL				SEE INTERIOR GLAZING ELEVATIONS NUMBER "IG 008" ON SHEET A.104
112B	3'-0"x7'-8"x1 3/4"	2	FRP	A	HM				
113	3'-0"x7'-8"x1 3/4"	1	FRP	A	HM				
114A	3'-6"x7'-8"x1 3/4"	3	FRP	A1	HM			1 HOUR	FIRE RESISTIVE RATED TAMPERED SAFETY GLASS
114B	(2) 3'-0"x7'-8"x1 3/4"	2	AL	B	AL				
115A	3'-0"x7'-8"x1 3/4"	2	SCW	A	HM				
115B	3'-0"x7'-8"x1 3/4"	2	SCW	A	HM				
116	3'-0"x7'-8"x1 3/4"	2	SCW	A	HM				
117	(2) 3'-0"x7'-8"x1 3/4"	2	SCW	A	HM				
118	3'-0"x7'-8"x1 3/4"	1	FRP	A	HM				
119	3'-0"x7'-8"x1 3/4"	1	FRP	A	HM				
120	3'-0"x7'-8"x1 3/4"	1	FRP	A	HM				
120A	3'-6"x7'-8"x1 3/4"	1A	FRP	A1	HM				PROVIDE 180 SWING HINGES
121	3'-0"x7'-8"x1 3/4"	2	AL	A	AL				SEE INTERIOR GLAZING ELEVATIONS NUMBER "IG 011" ON SHEET A.104
122	3'-0"x7'-8"x1 3/4"	2	AL	A	AL				SEE INTERIOR GLAZING ELEVATIONS NUMBER "IG 011" ON SHEET A.104



DOOR FRAME TYPES

NOT TO SCALE



DOOR PANEL TYPES

NOT TO SCALE

ABBREVIATION LEGEND

AA ANODIZED ALUMINUM
HM HOLLOW METAL
FRP FIBER REINFORCED PANEL
SCW SOLID CORE WOOD DOOR
SM SMOKE SEAL

GENERAL DOOR SPECIFICATIONS

1. SOLID CORE WOOD DOORS SHALL BE:
   A. PRE-FINISHED AS "PRE-FINISHED BY MOHAWK FLUSH DOORS".
   B. DOORS TO BE ROTARY-CUT NATURAL BIRCH VENEER, SOLID-CORE, FIRE-LABELED AS REQUIRED, PRE-FINISHED STANDARD COLORS IF ANY.
   C. FACTORY MACHINED FOR MORTISED HARDWARE AS SPECIFIED.
   D. ALL HARDWARE MUST BE RECESSED FLUSH WITH NO SHARP EDGES EXPOSED.
2. HOLLOW METAL DOORS AND FRAMES SHALL BE:
   A. AS FURNISHED BY PIONEER / STEELCRAFT / SPECIALITIES (OR EQUAL).
   B. FRAMES TO 16-GAGE, COMMERCIAL GRADE, "F" SERIES, WELDED UNITS, WITH ANCHORING AS REQUIRED BY WALL CONDITIONS.
   C. DOORS SHALL BE 18-GAGE, COMMERCIAL GRADE, "VM" SERIES, PREPARED TO RECEIVE MORTISED HARDWARE AS SPECIFIED.
   D. ALL HARDWARE MUST BE RECESSED FLUSH WITH NO SHARP EDGES EXPOSED.
   E. H.M. DOORS AND FRAMES SHALL PRIMED AND PAINTED TO MATCH ROOM COLOR.
3. ALL GLASS USED IN DOORS AND SIDE LITES SHALL BE TEMPERED 1/4" GLASS.
4. GLASS FRAME IN DOORS SHALL ALSO BE PRE-FINISHED TO MATCH DOOR OR FINISHED IN FIELD.
5. COORDINATE ALL DOORS AND FRAMES SIZES WITH MASONRY AND CARPENTRY CONTRACTORS PRIOR TO CONSTRUCTION.
6. COORDINATE ALL DOORS AND DOOR HARDWARE SETS WITH OWNER'S SECURITY / TECHNOLOGY CONSULTANTS.
7. ALUMINUM STOREFRONT SHALL BE: AS FURNISHED BY SELECTED ALUMINUM FRAME MANUFACTURE'S SPECIFICATIONS.
8. ALL DOORS TO COMPLY WITH THE 2015 EDITION OF THE MICHIGAN BUILDING CODE SECTION 1008 AND ICC/ANSI A117.1-2010 SECTION 404.2.
9. DOOR HANDLES, PLUS LATCH, LOCKS AND OTHER OPERATING DEVICES MAXIMUM HEIGHT OF 34"-48" ABOVE FINISH FLOOR. OPERATING DEVICES SHALL BE CAPABLE OF OPERATING WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. ALL MEANS OF EGRESS WHERE SERVING AN OCCUPANT LOAD OF 50 OR MORE PERSONS. THE OPENING FORCE FOR INTERIOR SIDE-SWING DOORS WITH- OUT CLOSURES SHALL NOT EXCEED 5-POUND FORCE. FOR ALL OTHER SIDE-SWING, SLIDING AND FOLDING DOORS, THE DOOR LATCH SHALL RELEASE WHEN SUBJECT TO A 15-POUND FORCE. THE DOOR SHALL SWING TO A FULL-OPEN POSITION WHEN SUBJECTED TO A 15 POUND FORCE. FORCES SHALL BE APPLIED TO THE LATCHSIDE.
10. ALL MEANS OF EGRESS DOORS SHALL BE READILY OPERABLE FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE, OR EFFORT. 20.ALL EXIT DOORS & MEANS OF EGRESS DOORS SHALL BE SIDE HINGED, NON-LOCKING & SWING IN DIRECTION OF EGRESS.
11. ALL EXIT DISCHARGE DOORS TO CONTAIN A TACTILE SIGN (TS) STATING "EXIT" COMPLYING WITH ICC A117.1 SECTION 703.3 AS REQUIRED BY MBC 2015 SECTIONS 1110.4. LOCATION OF SIGNS SHALL BE ALONGSIDE THE DOOR AT THE LATCH SIDE, ON THE INACTIVE LEAF OF DOUBLE DOOR, ON THE RIGHT HAND DOOR OF DOUBLE ACTIVE DOORS OR ON NEAREST ADJACENT WALL WHERE NO WALL IS ADJACENT TO LATCH SIDE OF DOOR. HT OF CHARACTERS SHALL BE 48" AFF TO BASELINE OF LOWEST TACTILE CHARACTER AND 60" AFF TO BASELINE OF HIGHEST.
12. ALL DOORS AND FRAMES IN A RATED WALL SHALL HAVE THE SAME OR HIGHER RATING AS THAT OF THE WALL IN WHICH IT OCCURS. PROVIDE DOOR CLOSURES WHERE REQUIRED.
13. "B" LABEL (90 MINUET RATING) TYPE FIRE RATED DOORS AND GLASS SHALL NOT EXCEED 100 SQ IN MAXIMUM AND SHALL BE SAFETY TEMPERED PROTECTIVE GLASS.
14. ALL GLASS WITHIN 12" OF DOOR AND LOCATED 18" ABOVE FINISH FLOOR MUST BE SAFETY TEMPERED PROTECTIVE GLASS. ALL SIDE LITES GLASS SHALL BE SAFETY TEMPERED PROTECTIVE GLASS.
15. DOOR CONTRACTOR SHALL COORDINATE DOOR SIZES WITH FLOOR FINISH MATERIAL THICKNESS FOR NEW DOOR SIZE CLEARANCE.

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

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RESIDENTIAL
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INDUSTRIAL
G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM
ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE :

FILE NAME : 19059_A003

JOB #: 19059

SHEET TITLE
GENERAL INFORMATION AND SCHEDULES

SHEET #
A.003

GLAZING NOTES:

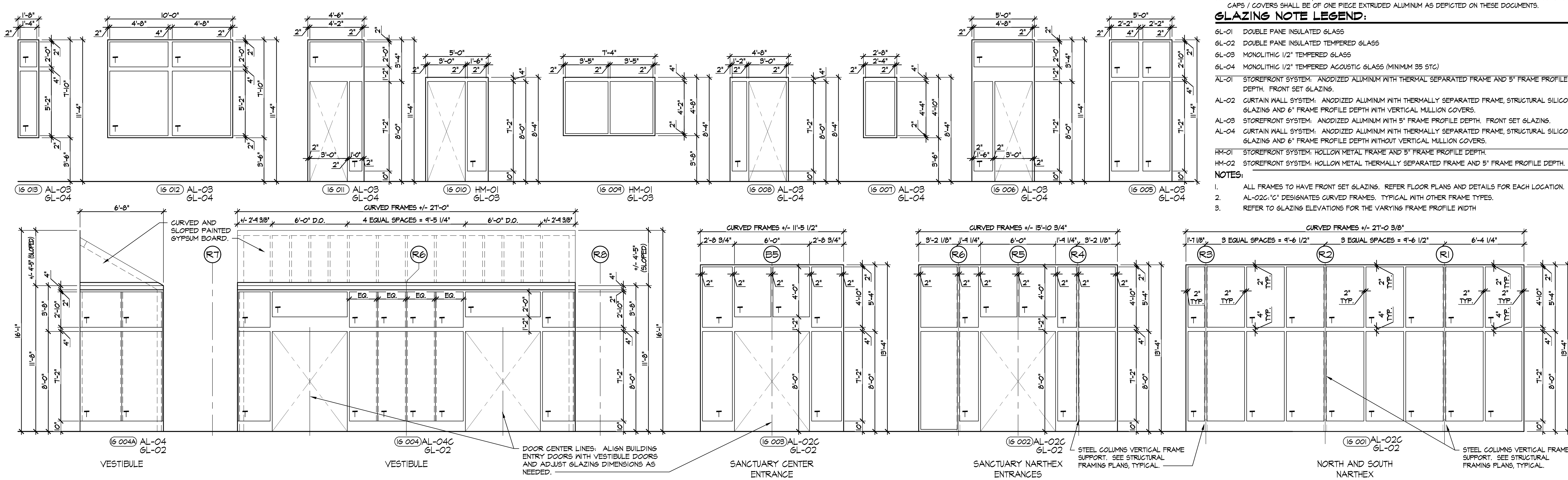
1. CONTRACTOR SHALL SUBMIT A "SILVER" COLORED ANODIZED ALUMINUM FRAME SAMPLES ALONG WITH MANUFACTURER PRODUCT SPECIFICATIONS FOR APPROVAL.
2. SUGGESTED MANUFACTURERS ARE KAWNEER, EFCO, TRACO & VISTAWALL GROUP OR APPROVED EQUAL PRODUCT.
3. ALL GLASS SHALL BE TEMPERED 1" INSULATED GLASS PER CODE AND WHERE NOTED:
   A. "PPG: SOLARSBAN 60 BRONZE" LOW-E INSULATING GLASS".
   B. "VIRACON: SOLARSCREEN LOW-E INSULATING GLASS" (VE 1-55)
   C. OR OR EQUAL APPROVED PRODUCT BY OWNER.
4. SUBMIT SAMPLES OF ONE OF THE TWO ABOVE ALONG WITH THE PROPOSED EQUAL TO ARCHITECT FOR APPROVAL.
5. ALL GLASS SHALL BE SAFETY GLASS AS REQUIRED PER SECTION 2406. AND SHALL PASS THE TEST REQUIREMENTS OF CPSC 16 CFR, PART 1201.
6. ALL GLASS WITHIN 12" OF DOOR AND LOCATED 18" ABOVE FINISH FLOOR MUST BE SAFETY TEMPERED PROTECTIVE GLASS. ALL SIDE LITES GLASS SHALL BE SAFETY TEMPERED PROTECTIVE GLASS.
7. ALL EXTERIOR FRAMES AND WHERE NOTED TO HAVE A THERMALLY SEPARATED SYSTEM.
8. ALL GLAZING FRAME CAPS, COVERS AND FRAMES SHALL BE OF THE SAME ALUMINUM AS THE SELECTED SYSTEM. CAPS / COVERS SHALL BE OF ONE PIECE EXTRUDED ALUMINUM AS DEPICTED ON THESE DOCUMENTS.

GLAZING NOTE LEGEND:

GL-01	DOUBLE PANE INSULATED GLASS
GL-02	DOUBLE PANE INSULATED TEMPERED GLASS
GL-03	MONOLITHIC 1/2" TEMPERED GLASS
GL-04	MONOLITHIC 1/2" TEMPERED ACOUSTIC GLASS (MINIMUM 35 STC)
AL-01	STOREFRONT SYSTEM: ANODIZED ALUMINUM WITH THERMAL SEPARATED FRAME AND 5" FRAME PROFILE DEPTH. FRONT SET GLAZING.
AL-02	CURTAIN WALL SYSTEM: ANODIZED ALUMINUM WITH THERMALLY SEPARATED FRAME, STRUCTURAL SILICONE GLAZING AND 6" FRAME PROFILE DEPTH WITH VERTICAL MULLION COVERS.
AL-03	STOREFRONT SYSTEM: ANODIZED ALUMINUM WITH 5" FRAME PROFILE DEPTH. FRONT SET GLAZING.
AL-04	CURTAIN WALL SYSTEM: ANODIZED ALUMINUM WITH THERMALLY SEPARATED FRAME, STRUCTURAL SILICONE GLAZING AND 6" FRAME PROFILE DEPTH WITHOUT VERTICAL MULLION COVERS.
HM-01	STOREFRONT SYSTEM: HOLLOW METAL FRAME AND 5" FRAME PROFILE DEPTH.
HM-02	STOREFRONT SYSTEM: HOLLOW METAL THERMALLY SEPARATED FRAME AND 5" FRAME PROFILE DEPTH.

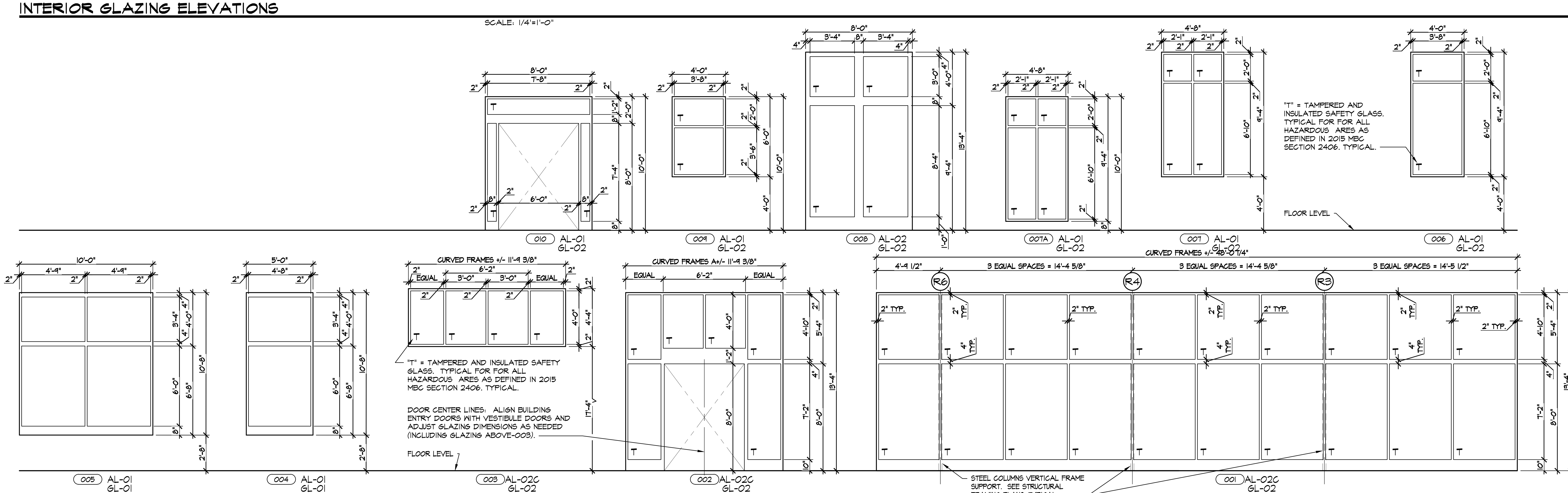
NOTES:

1. ALL FRAMES TO HAVE FRONT SET GLAZING. REFER FLOOR PLANS AND DETAILS FOR EACH LOCATION.
2. AL-02C:"C" DESIGNATES CURVED FRAMES. TYPICAL WITH OTHER FRAME TYPES.
3. REFER TO GLAZING ELEVATIONS FOR THE VARYING FRAME PROFILE WIDTH



INTERIOR GLAZING ELEVATIONS

SCALE: 1/4"=1'-0"



EXTERIOR GLAZING ELEVATIONS

SCALE: 1/4"=1'-0"

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3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DG	DG

SCALE :

FILE NAME : 19059_A004

JOB #: 19059

SHEET TITLE
GENERAL INFORMATION AND SCHEDULES

SHEET #
A.004

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

CODE NARRATIVE:

1. THESE BUILDING PLANS ARE BEING SUBMITTED FOR A PROPOSED TWO STORY BUILDING.
2. WHEN THE SANCTUARY IS OCCUPIED DURING SERVICE TIME, THE MULTIPURPOSE ROOM WILL NOT BE OCCUPIED PER OWNER. ALSO THE SAME, WHEN THE MULTIPURPOSE ROOM IS OCCUPIED, THE SANCTUARY WILL NOT BE OCCUPIED.
3. ALSO PER OWNER, THE MAXIMUM OCCUPANT WILL NOT EXCEED THE PARKING REQUIREMENTS OF 400 FIXED SEATS.
4. THE BUILDING WILL HAVE A FULL FIRE PROTECTION SYSTEM THROUGHOUT.
5. FIRE PROTECTION SPRINKLER SYSTEM IS NOT SHOWN ON THESE DRAWINGS AND IS BY CONTRACTOR TO SUBMIT TO AUTHORITY FOR REVIEW AND APPROVAL.

CODES AND STANDARDS REFERENCES:

GENERAL CONTRACTOR TO COMPLY WITH ALL FEDERAL, STATE, CITY AND LOCAL CODES WHERE APPLICABLE. ALL CONSTRUCTION SHALL COMPLY TO THE FOLLOWING.:

- 2015 MICHIGAN BUILDING CODE (MBC).
- 2015 MICHIGAN MECHANICAL CODE (MMC).
- 2015 MICHIGAN PLUMBING CODE (MPC).
- 2017 NATIONAL ELECTRICAL CODE (NEC) PART 8 OF THE STATE CONSTRUCTION CODE
- 2009 ICC/ANSI A117.1 AND MICHIGAN BARRIER FREE DESIGN LAW P.A. 1 OF 1966 AS AMENDED.
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) WITH 2013 ASHRAE STANDARD 90.1 STANDARD INCLUDING AMENDMENTS.
- 2015 MICHIGAN UNIFORM ENERGY CODE, PART 10A (MEC
- 2010 FIRE SUPPRESSION NFPA 13
- 2013 FIRE ALARM CODE NFPA 72
- 2012 INTERNATIONAL FIRE CODE (IFC)
- 2015 INTERNATIONAL FUEL GAS CODE (IFGC)
- UNDERWRITERS LABORATORIES, INC
- PROJECT SHALL COMPLY WITH MBC 2015 CHAPTER 35 REFERENCE STANDARDS.
- CITY OF AUBURN HILLS ZONING ORDINANCE AND CODES
- MICHIGAN ELEVATOR CODE

BUILDING CONSTRUCTION & CODE CRITERIA:

USE GROUP: A-3
CONSTRUCTION CLASS: IIB
NUMBER OF STORIES: 2

	UL DESIGN NO. (UN RESTRAINED)	REQUIRED (HOURS)	PROVIDED (HOURS)
PRIMARY STRUCTURAL FRAME:			
COLUMNS	NA	0	0
FLOOR JOISTS / BEAMS	NA	0	0
ROOF JOISTS / BEAMS	NA	0	0
BEARING WALL:			
EXTERIOR		0	0
INTERIOR		0	0
NON BEARING WALLS & PARTITIONS:			
EXTERIOR	NA	0	0
INTERIOR	NA	0	0
FLOOR CONSTRUCTION	NA	0	0
ROOF CONSTRUCTION	NA	0	0
SHAFTS ENCLOSURES	No. U905	1	1
(MBC 713.4)	No. U415 & NER-258	1	1

OPENINGS IN EXTERIOR WALLS:
MBC - 705.8 NO LIMIT
MBC - 705.8.2 NOT REQUIRED TO BE PROTECTED

INTERIOR FINISHES:

ALL INTERIOR FINISHES SHALL MEET MBC FINISH REQUIRED TABLE 803.11:

SPACE TYPE	CLASSIFICATION
INTERIOR EXIT STAIRWAYS, RAMPS &EXIT PASSAGEWAYS	B
CORRIDORS & ENCLOSURE FOR EXIT ACCESS STAIRWAYS & RAMPS	B
ROOMS AND ENCLOSED SPACE	C

BUILDING AREA:

LOWER LEVEL	16,832 SF
GROUND LEVEL	16,832 SF
TOTAL	33,664 SF

ALLOWED BUILDING HEIGHT AND AREA SECTION 504 & 506:
BASED ON EDUCATION "A-3 USE GROUP AND FULLY PROTECTED
- BASE AREAS:
  NS 9,500 SF
  SM 28,500 SF
- HEIGHT: 3 STORIES, 75 FT

ALLOWABLE AREA INCREASE:
SINGLE OCCUPANCY, MULTI STORY.

AREA INCREASE (506.2.3):
Aa = [At + (NS x If)] x 2
[28,500 + (9,500 x 0.75)] x 2
71,250 SF ALLOWED

FRONTAGE INCREASE (506.3.3):
If = [F/P - 0.25] W/30
[(522 / 522) - 0.25] 30/30
0.75

CODE REFERENCES:

- OCCUPANCY LOADS:
  - CHAPEL (1004.4) OCCUPANTS COUNT
    PEWS WITHOUT ARM DIVIDERS - 825 LF/18" = 550
    FIXED SEATS WITH ARM DIVIDERS = 400
    NOTE:
    HIGHER OCCUPANCY NUMBER OF 550 IS USED FOR EGRESS CALCULATIONS ONLY. SEE CODE NARRATIVE ON THIS SHEET.
  - MULTIPURPOSE ROOM:
    UN-CONCENTRATED 3,787 SF / 15 = 253
    NOTE:
    HIGHER OCCUPANCY NUMBER OF 540 IS USED FOR EGRESS CALCULATIONS ONLY. SEE CODE NARRATIVE ON THIS SHEET.

MISCELLANEOUS REFERENCES:
MBC - 1004.1.2 - OCCUPANT LOADS:

ASSEMBLY UN-CONCENTRATED (TABLES AND CHAIRS)	15 NET
BUSINESS	100 GROSS
CLASSROOM AREA	20 NET
KITCHENS	200 GROSS
PLATFORM (ALTER)	15 NET
STORAGE AREAS	300 GROSS
MECHANICAL & ELECTRICAL ROOMS	300 GROSS

MBC-1005.3.1	STAIRWAYS WIDTHS	0.30 IN / OCCUPANT
MBC-1005.3.2	OTHER COMPONENTS WIDTHS	0.20 IN / OCCUPANT
MBC-1006.2.1	COMMON PATH OF EGRESS TRAVEL	75 FT
MBC-1006.2.1	MAXIMUM OCCUPANT LOAD	49 OCCUPANTS
MBC-1007.1.1:	REMOTENESS OF EXITS (1007.1.1): MINIMUM DISTANCE APART (SPRINKLED) = 1/3 THE OVERALL DIAGONAL OF THE GIVEN AREA OR BUILDING IN QUESTION - BUILDING ADDITION	
MBC-1017.2	EXIST ACCESS TRAVEL DISTANCE	250 FT
MBC-1020.4	DEAD END CORRIDOR	20 FT

PLUMBING FIXTURE REQUIREMENT

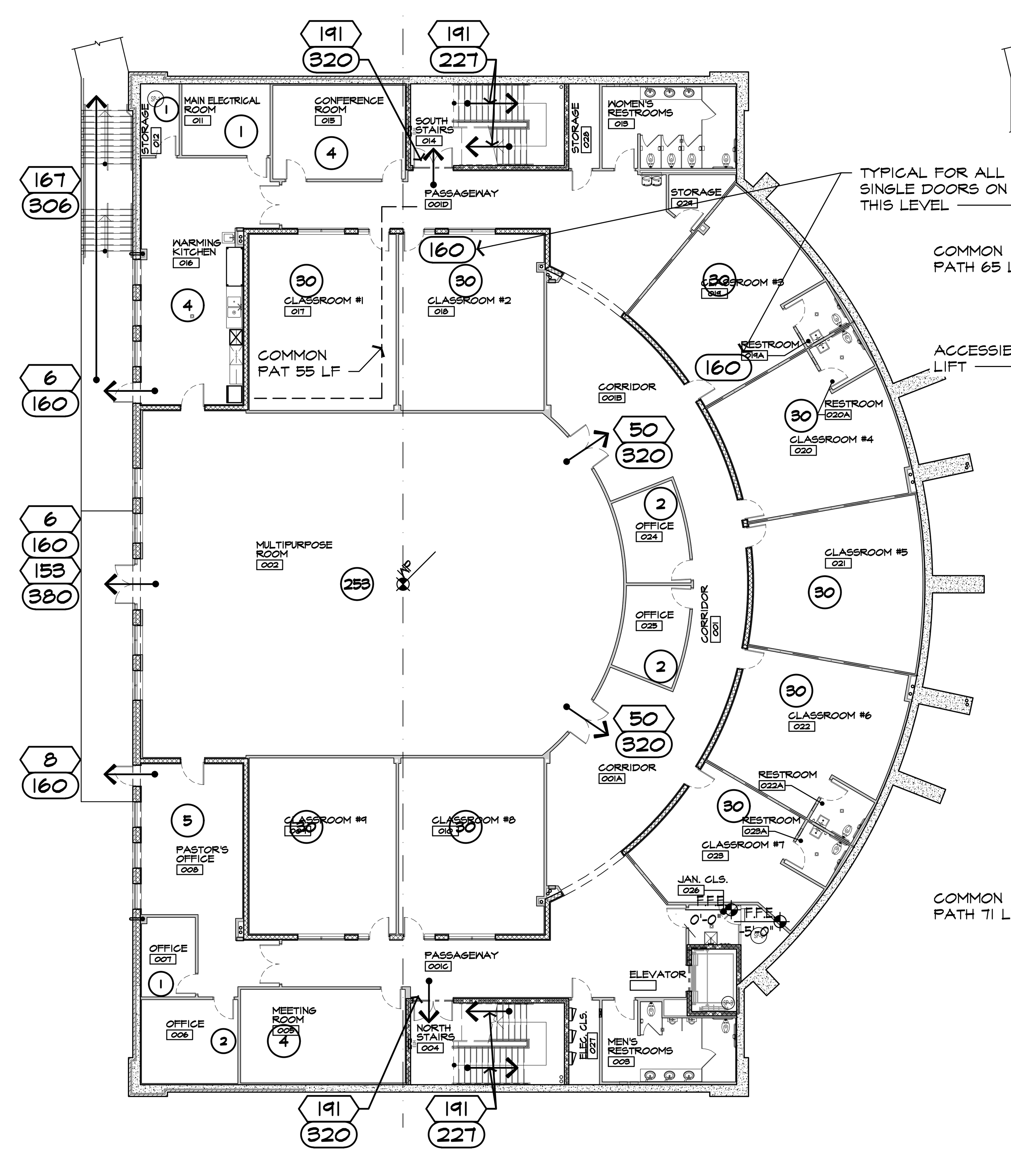
SEE CODE NARRATIVE ON THIS SHEET FOR USE OF SANCTUARY AND MULTIPURPOSE ROOM SIMULTANEOUSLY. FIXTURE COUNT IS BASED ON HIGHEST OCCUPANCY LEVEL WHICH THE GROUND LEVEL SANCTUARY USE ALONG WITH LOWER LEVEL CLASSROOMS THAT DO NOT HAVE RESTROOMS

OCCUPANTS:	MALE	FEMALE	TOTAL
LOWER LEVEL	137	137	274
GROUND LEVEL	225	225	550

REQUIRED WATER CLOSETS:	TOTAL REQUIRED
MALE - 1/125	4
FEMALE - 1/65	7
PROVIDED WATER CLOSETS:	**TOTAL PROVIDED**
MALE	8
FEMALE	8
UNISEX	5
LAVATORIES:	**TOTAL**
REQUIRED - 1/200	4
PROVIDED	17
DRINKING FOUNTAIN:	**TOTAL**
REQUIRED - 1/500	2
PROVIDED	2
SERVICE SINK:	**TOTAL**
REQUIRED	1
PROVIDED	3

FLOOR PLAN SYMBOL LEGEND:

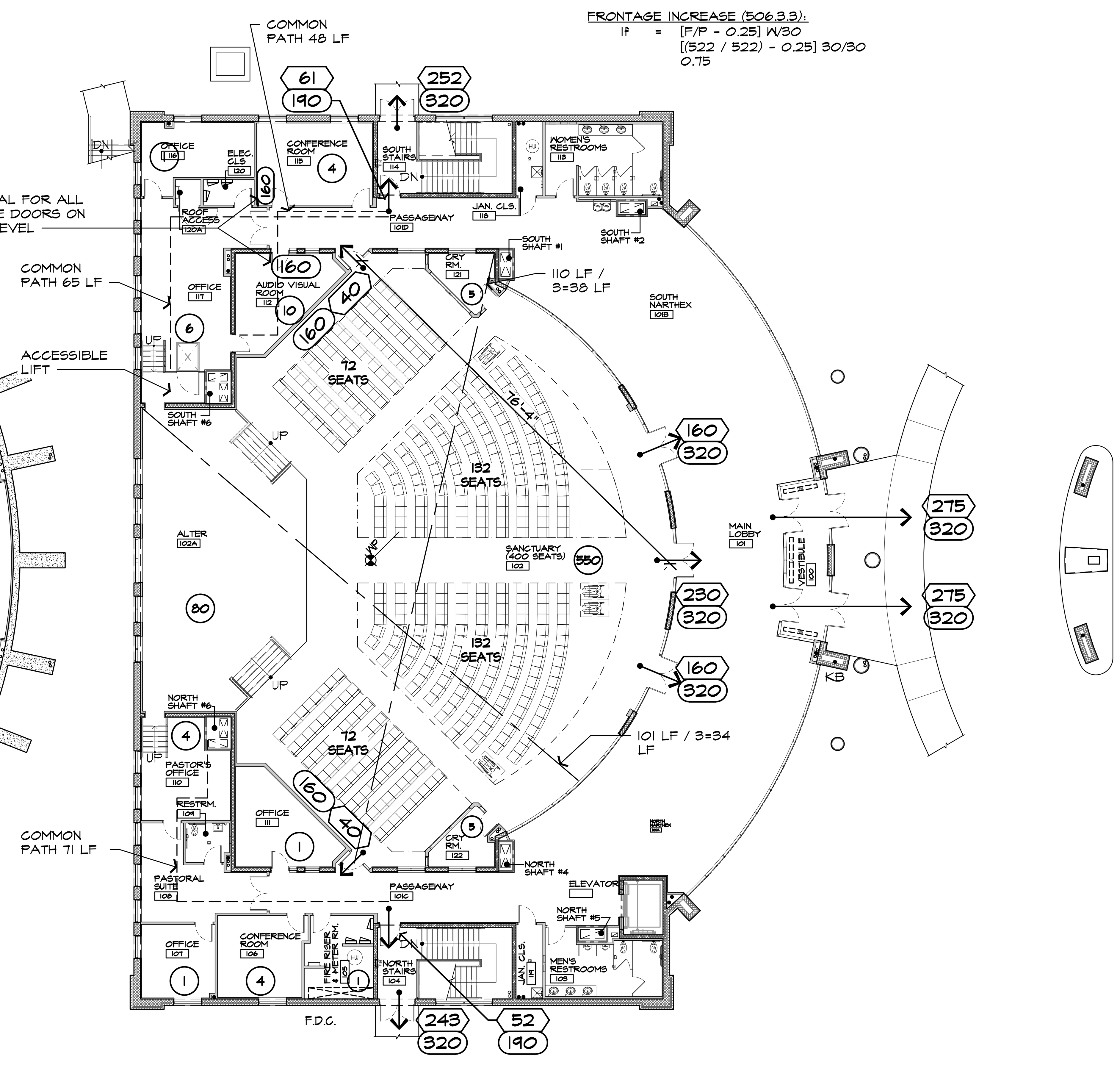
	1 HOUR FIRE BARRIER WALL CONSTRUCTION
F.E.C.	FIRE EXTINGUISHER CABINET (75' MAX. TRAVEL DISTANCE)
#	OCCUPANT LOAD EXITING THROUGH EGRESS COMPONENT
#	OCCUPANT CAPACITY OF EGRESS COMPONENT
50	OCCUPANT LOAD
F.D.C.	FIRE DEPARTMENT CONNECTION (COORDINATE WITH LOCAL FIRE DEPARTMENT).
KB	K (COORDINATE WITH LOCAL FIRE DEPARTMENT)NOCK BOX



LOWER LEVEL LIFE SAFETY PLAN

SCALE: 1/16"= 1'-0"

NORTH



GROUND LEVEL LIFE SAFETY PLAN

SCALE: 1/16"= 1'-0"

NORTH

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN
RESIDENTIAL
COMMERCIAL
INDUSTRIAL

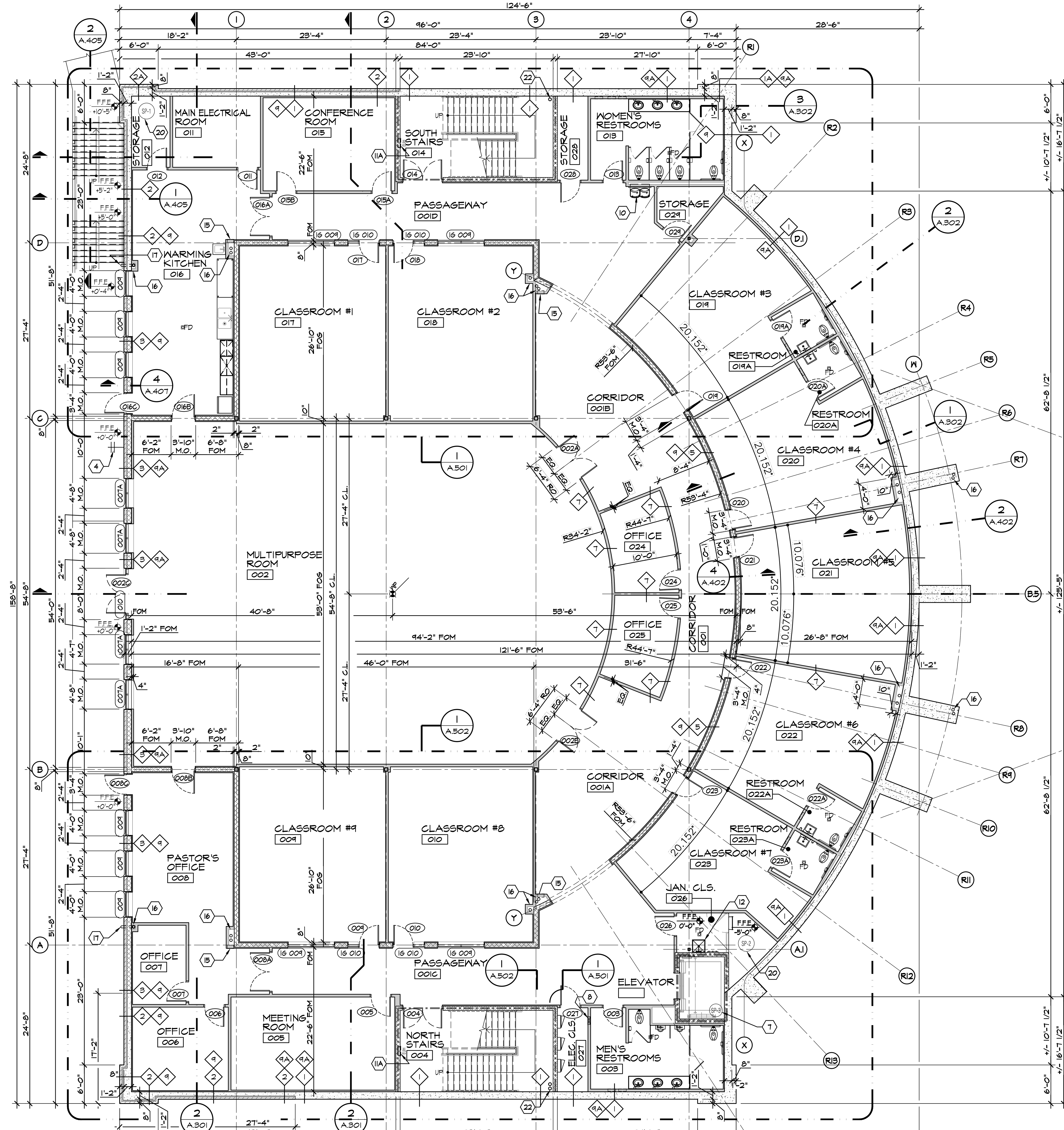
G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

GAV ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DG	DG

SCALE : 1/16" = 1'-0"
FILE NAME : 19059_A091
JOB #: 19059
SHEET TITLE
LIFE SAFETY PLAN AND INFORMATION
SHEET #
A.091



LOWER LEVEL FLOOR PLAN

SCALE: 1/8"= 1'-0"

NORTH

WALL LEGEND NOTES:

1. PROVIDE 9 GA. LADDER TYPE HORIZONTAL JOINT REINFORCEMENT WITH CROSS WIRES @ 16" O.C. SPACED VERTICALLY FOR ALL CMU WALLS.
2. PROVIDE 9 GA LADDER TYPE HORIZONTAL JOINT REINFORCEMENT WITH CROSS WIRES @ 16" O.C. WITH ADJUSTABLE VENEER TIES AT 16" O.C. STAGGERED FOR ALL CMU WITH BRICK VENEER WALLS.
3. WEEP HOLES: PROVIDE ONE PIECE SINGLE-PLY FLASHING (MINIMUM OF 1 CMU COURSE WITH END DAMS) AND ONE PIECE METAL FLASHING WITH HEMMED DRIP EDGE. PROVIDE PARTIALLY OPEN HEAD JOINT WEEP HOLES @ 24" O.C. MINIMUM OF TWO HOLES OVER WINDOWS AND DOORS. GROUT AIR SPACE SOLID UNDER FLASHING. PROVIDE WASHED PEA STONE FOR PROPER DRAINAGE.
4. EXTEND ALL WALLS TO UNDER SIDE OF FLOOR / ROOF METAL DECK FOR SMOKE TIGHT CONSTRUCTION. CLOSE ALL OPENINGS WITH GROUT MATERIAL TO MEET CODE REQUIREMENTS FOR A SMOKE TIGHT CONSTRUCTION OR FIRE RATE CONSTRUCTION AS INDICATED. SEE PLANS FOR LOCATIONS OF SMOKE / FIRE WALLS.
5. GROUT ALL CMU WALLS SOLID AT RE-BARS AND FIRST TWO COURSES OVER EXISTING MASONRY OR FOUNDATIONS. DOWEL INTO EXISTING MASONRY.
6. PROVIDE A MASONRY CONTROL / EXPANSION JOINTS FOR ALL NEW WALLS OVER 20'-0" IN RUN OR MORE. MAXIMUM SPACING OF 25'-0"
7. PROVIDE CONTINUOUS 8"/12" BOND BEAM (B.B.) W/ (2) #5 BARS. VERTICAL WALL BARS TO CONTINUE THRU B.B. & HOOK TO B.B. STEEL FOR UPLIFT CONTINUITY. GROUT ONE COURSE ABOVE AND ONE BELOW B.B. PROVIDE METAL LATH OR WIRE SCREEN UNDER B.B. TO CONFINE GROUT. LAPPED B.B. MINIMUM OF 48" TO ACCOMMODATE ELEVATION CHANGES FOR THE CORRIDOR WALLS.
8. REFER TO BUILDING ELEVATIONS AND SECTIONS FOR COURSING AND OTHER MATERIALS.

FLOOR PLAN SYMBOL LEGEND:

	1 HOUR FIRE BARRIER WALL CONSTRUCTION
1	FLOOR PLANS KEY NOTE
5	WALL TYPE
101	DOOR SCHEDULE NUMBER
001	WINDOW TYPE SCHEDULE NUMBER

FLOOR PLANS NOTE LEGEND:

1	RECESSED KNOX BOX. COORDINATE WITH LOCAL FIRE DEPARTMENT.
2	FIRE DEPARTMENT CONNECTION (F.D.C.) AND WATER METER LOCATION. REFER TO MECHANICAL.
3	GAS METER, COORDINATE WITH CIVIL AND MECHANICAL.
4	HOSE BIB, REFER TO MECHANICAL
5	FIRE PROTECTION ASSEMBLY, REFER TO MECHANICAL.
6	ALARM PANEL & SPRINKLER SYSTEM STATUS PANEL
7	ELEVATOR SUMP PUMP AND PIT. COORDINATE & VERIFY LOCATION WITH ELEVATOR MANUFACTURER AND FOOTINGS AND ELECTRICAL / MECHANICAL. 24" DIA.x36" DEEP WITH GALVANIZED STEEL GRATING COVER TYPICAL.
8	ELEVATOR SUMP PUMP CONTROL PANEL. COORDINATE LOCATION WITH ELEVATOR MANUFACTURER.
9	ELEVATOR SHUT OFF BOX. COORDINATE WITH LOCAL FIRE DEPARTMENT.
10	SEMI RECESSED ELECTRIC WATER COOLER. COORDINATE MECHANICAL AND WITH MANUFACTURER SPECIFICATIONS.
11	UNIT HEATER - FLOOR (11) OR WALL 4" MAXIMUM RECESS (11A). PROVIDE COMPLETE TRIM /CLOSURE AROUND UNIT BY MANUFACTURE. REFER TO MECHANICAL.
12	SERVICE SINK WITH MOP RACK, REFER TO PLUMBING
13	ROOF ACCESS LADDER. SEE DETAILS ON SHEET A.408
14	BARRIER FREE POWER ASSIST DOOR ACTUATOR.
15	FIRE EXTINGUISHER CABINET. FULLY RECESSED TRIM-LESS AND WITH FLUSH HANDLE.
16	ROOF DRAIN PIPE CHASE AND / OR LOCATION. COORDINATE WITH MECHANICAL.
17	ROOF OVERFLOW DRAIN NOZZLE. SEE DETAIL 3/A.408 AND COORDINATE WITH MECHANICAL.
18	HOT WATER HEATER. COORDINATE WITH MECHANICAL AND ELECTRICAL.
19	ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR SUPPLIER. SEE DETAIL 7/A.408
20	SUMP PUMP AND PIT FOR BUILDING FOUNDATION WALL PERIMETER DRAIN PIPE. REFER TO ELECTRICAL AND MECHANICAL AND COORDINATE WITH CONCRETE WORK. 30" DIA.x36" DEEP WITH GALVANIZED STEEL GRATING COVER TYPICAL.
21	WALK OFF MATT: REMOVABLE ALUMINUM WITH EXTERIOR GRADE CARPET TREADS, CUSHION FEET BETWEEN BOTH DOOR THRESHOLD AND ABOVE FLOOR, NOT RECESSED IN CONCRETE. COORDINATE WITH OWNER.
22	FIRE PROTECTION STAND PIPES. COORDINATE WITH MECHANICAL AND FIRE PROTECTION.

WALL LEGEND:

1 (1'-2")
- 1'-2" THICK CAST IN PLACE FORMED CONCRETE WALL.
- REFER TO STRUCTURAL SHEETS FOR REINFORCEMENT.
- WATER PROOFING MEMBRANE FULL HEIGHT OF WALL BELOW GRADE
- 2" RIDGED BOARD INSULATION FULL HEIGHT OF WALL BELOW GRADE.
- INTEGRATED WATER STOPS AT ALL POUR JOINTS WITH FOUNDATIONS.

1A (1'-10")

WALL TYPE 1A:
- SAME AS WALL TYPE 1 EXCEPT 1'-10" THICKNESS.

2 (1'-2")
- 4" BRICK VENEER
- 2 3/4" CAVITY WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM) AND AIR BARRIER.
- 8" THICK CAST IN PLACE FORMED CONCRETE WALL.
  - REFER TO STRUCTURAL SHEETS FOR REINFORCEMENT.
  - WATER PROOFING MEMBRANE FULL HEIGHT OF WALL BELOW GRADE
  - 2" RIDGED BOARD INSULATION FULL HEIGHT OF WALL BELOW GRADE / BRICK LEDGE.
  - INTEGRATED WATER STOPS AT ALL POUR JOINTS WITH FOUNDATIONS.

2A (1'-10")

WALL TYPE 2A:
- SAME AS WALL TYPE 2 EXCEPT 1'-10" THICKNESS.

3 (1'-2")
- 4" BRICK VENEER
- 2 3/4" CAVITY WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM) AND AIR BARRIER
- 8" C.M.U. WALL
- REFER TO BUILDING ELEVATION FOR COURSING AND MATERIAL.
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

3A (1'-10")

WALL TYPE 3A:
- SAME AS WALL TYPE 3 EXCEPT 1'-10" THICKNESS

4 (10")
- 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

4A (1'-0")
- 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 1/2" EXTERIOR GRADE PLYWOOD ON 1 1/2" Z-GIRTS FRAMING AT 16" O.C. WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM).
- AIR BARRIER
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOV

5 (8")
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

5A (8")

FIRE BARRIER WALL:
- UL DESIGN NO. U905 - ONE HOUR RATING
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

6
- COLUMN ENCLOSURE: 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 1/2" EXTERIOR GRADE PLYWOOD ON 18 GA - 4" COLD FORMED METAL FRAMING AT 12" O.C. PROVIDE #5 VERTICAL DOWELS @12" O.C. FOR TWO CMU COURSES.

7 (4 1/2")

5/8" GYPSUM BOARD ON BOTH SIDES OF 18 GA - 3-5/8" METAL STUDS @ 16" O.C WITH:
- FULL HEIGHT SOUND BATT INSULATION.
- EXTEND TO UNDERSIDE OF ROOF DECK U.N.O.
- PROVIDE DEFLECTION TRACK @ ROOF TO WALL CONNECTION.
- BRACE TOP WALL TO NEAREST STEEL MEMBER AT 4'-0" O.C. MAXIMUM.
- SEAL ALL PENETRATIONS IN WALL.

7A (6")

WALL TYPE 7A:
- SAME AS WALL TYPE 7 EXCEPT FOR 18 GA - 6" METAL STUDS AT 16" O..C

7B (4")

WALL TYPE 7B:
- SAME AS WALL TYPE 7 OR 7A EXCEPT FOR GYPSUM BOARD ON ONE SIDE ONLY

8 (4 1/2")

FIRE BARRIER SHAFT WALL: 5/8" FIRE RATED GYPSUM BOARD ON MINIMUM 18 GA. 4" DEEP METAL "C-H" SHAPED STUDS @ 16" O.C WITH 1" FIRE RATED GYPSUM LINER BOARD.
- UL DESIGN NO. U415 - ONE HOUR RATING
- FULL HEIGHT SOUND BATT INSULATION AS APPROVED BY THE UL DESIGN
- EXTEND TO UNDERSIDE OF ROOF DECK.
- PROVIDE DEFLECTION TRACK @ ROOF TO WALL CONNECTION.APPROVED BY THE UL DESIGN
- PROVIDE NER-258 DESIGN AT BASE OF SHAFT AT FLOOR OPENING..

9 (2")
- 5/8" GYPSUM BOARD ON 20 GA. 1-1/2" METAL STUDS @ 16" O.C. EXTEND TO UNDERSIDE OF DECK
- EXTEND 6" ABOVE CEILING U.N.O.
- FULL HEIGHT R-6 BATT INSULATION (PROVIDED R-6 SEMI RIDGED INSULATION ABOVE CEILING WHERE GYPSUM BOARD IS ABSENT.

9A (4")

WALL TYPE 9A:
- SAME AS WALL TYPE EXCEPT FOR 18 GA - 3-5/8" METAL STUDS @ 16" O.C
- FULL HEIGHT R-11 BATT INSULATION (PROVIDED R-11 SEMI RIDGED INSULATION ABOVE CEILING WHERE GYPSUM BOARD IS ABSENT.

ISSUED FOR	DATE
SPA	8-5-2019
SPA REVISIONS	9-16-2019
SPA REVISIONS	10-3-2019
PERMITS	08.23.2021

ARCHITECTURAL DESIGN
RESIDENTIAL
COMMERCIAL
INDUSTRIAL

G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : 1/8" = 1'-0"

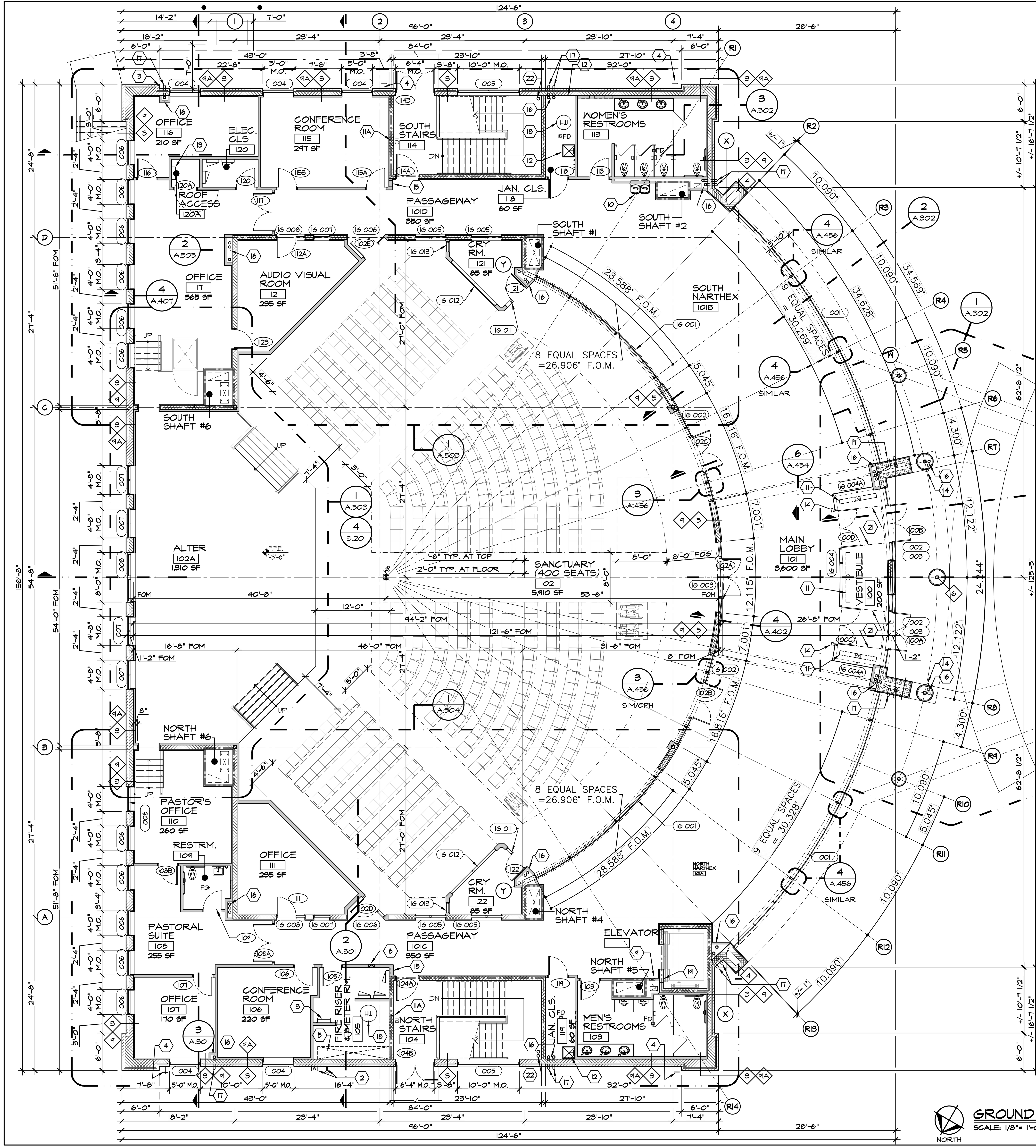
FILE NAME : 19059_A101

JOB #: 19059

SHEET TITLE
LOWER LEVEL FLOOR PLAN

SHEET #
A.101

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT



GROUND LEVEL FLOOR PLAN

SCALE: 1/8"= 1'-0"

NORTH

WALL LEGEND NOTES:

1. PROVIDE 9 GA. LADDER TYPE HORIZONTAL JOINT REINFORCEMENT WITH CROSS WIRES @ 16" O.C. SPACED VERTICALLY FOR ALL CMU WALLS.
2. PROVIDE 9 GA LADDER TYPE HORIZONTAL JOINT REINFORCEMENT WITH CROSS WIRES @ 16" O.C. WITH ADJUSTABLE VENEER TIES AT 16" O.C. STAGGERED FOR ALL CMU WITH BRICK VENEER WALLS.
3. WEEP HOLES: PROVIDE ONE PIECE SINGLE-PLY FLASHING (MINIMUM OF 1 CMU COURSE WITH END DAMS) AND ONE PIECE METAL FLASHING WITH HEMMED DRIP EDGE. PROVIDE PARTIALLY OPEN HEAD JOINT WEEP HOLES @ 24" O.C. MINIMUM OF TWO HOLES OVER WINDOWS AND DOORS. GROUT AIR SPACE SOLID UNDER FLASHING. PROVIDE WASHED PEA STONE FOR PROPER DRAINAGE.
4. EXTEND ALL WALLS TO UNDER SIDE OF FLOOR / ROOF METAL DECK FOR SMOKE TIGHT CONSTRUCTION. CLOSE ALL OPENINGS WITH GROUT MATERIAL TO MEET CODE REQUIREMENTS FOR A SMOKE TIGHT CONSTRUCTION OR FIRE RATE CONSTRUCTION AS INDICATED. SEE PLANS FOR LOCATIONS OF SMOKE / FIRE WALLS.
5. GROUT ALL CMU WALLS SOLID AT RE-BARS AND FIRST TWO COURSES OVER EXISTING MASONRY OR FOUNDATIONS. DOWEL INTO EXISTING MASONRY.
6. PROVIDE A MASONRY CONTROL / EXPANSION JOINTS FOR ALL NEW WALLS OVER 20'-0" IN RUN OR MORE. MAXIMUM SPACING OF 25'-0"
7. PROVIDE CONTINUOUS 8"/12" BOND BEAM (B.B.) W/ (2) #5 BARS. VERTICAL WALL BARS TO CONTINUE THRU B.B. & HOOK TO B.B. STEEL FOR UPLIFT CONTINUITY. GROUT ONE COURSE ABOVE AND ONE BELOW B.B. PROVIDE METAL LATH OR WIRE SCREEN UNDER B.B. TO CONFINE GROUT. LAPPED B.B. MINIMUM OF 48" TO ACCOMMODATE ELEVATION CHANGES FOR THE CORRIDOR WALLS.
8. REFER TO BUILDING ELEVATIONS AND SECTIONS FOR COURSING AND OTHER MATERIALS.

FLOOR PLAN SYMBOL LEGEND:

- 1 HOUR FIRE BARRIER WALL CONSTRUCTION
- 1 — FLOOR PLANS KEY NOTE
- 5 — WALL TYPE
- 101 — DOOR SCHEDULE NUMBER
- 001 — WINDOW TYPE SCHEDULE NUMBER

FLOOR PLANS NOTE LEGEND:

1. RECESSED KNOX BOX. COORDINATE WITH LOCAL FIRE DEPARTMENT.
2. FIRE DEPARTMENT CONNECTION (F.D.C.) AND WATER METER LOCATION. REFER TO MECHANICAL.
3. GAS METER, COORDINATE WITH CIVIL AND MECHANICAL.
4. HOSE BIB, REFER TO MECHANICAL
5. FIRE PROTECTION ASSEMBLY, REFER TO MECHANICAL.
6. ALARM PANEL & SPRINKLER SYSTEM STATUS PANEL
7. ELEVATOR SUMP PUMP AND PIT. COORDINATE & VERIFY LOCATION WITH ELEVATOR MANUFACTURER AND FOOTINGS AND ELECTRICAL / MECHANICAL. 24" DIA.x36" DEEP WITH GALVANIZED STEEL GRATING COVER TYPICAL.
8. ELEVATOR SUMP PUMP CONTROL PANEL. COORDINATE LOCATION WITH ELEVATOR MANUFACTURER.
9. ELEVATOR SHUT OFF BOX. COORDINATE WITH LOCAL FIRE DEPARTMENT.
10. SEMI RECESSED ELECTRIC WATER COOLER. COORDINATE MECHANICAL AND WITH MANUFACTURER SPECIFICATIONS.
11. UNIT HEATER - FLOOR (11) OR WALL 4" MAXIMUM RECESS (11A). PROVIDE COMPLETE TRIM /CLOSURE AROUND UNIT BY MANUFACTURE. REFER TO MECHANICAL.
12. SERVICE SINK WITH MOP RACK, REFER TO PLUMBING
13. ROOF ACCESS LADDER. SEE DETAILS ON SHEET A.408
14. BARRIER FREE POWER ASSIST DOOR ACTUATOR.
15. FIRE EXTINGUISHER CABINET. FULLY RECESSED TRIM-LESS AND WITH FLUSH HANDLE.
16. ROOF DRAIN PIPE CHASE AND / OR LOCATION. COORDINATE WITH MECHANICAL.
17. ROOF OVERFLOW DRAIN NOZZLE. SEE DETAIL 3/A.408 AND COORDINATE WITH MECHANICAL.
18. HOT WATER HEATER. COORDINATE WITH MECHANICAL AND ELECTRICAL.
19. ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR SUPPLIER. SEE DETAIL 7/A.408
20. SUMP PUMP AND PIT FOR BUILDING FOUNDATION WALL PERIMETER DRAIN PIPE. REFER TO ELECTRICAL AND MECHANICAL AND COORDINATE WITH CONCRETE WORK. 30" DIA.x36" DEEP WITH GALVANIZED STEEL GRATING COVER TYPICAL.
21. WALK OFF MATT: REMOVABLE ALUMINUM WITH EXTERIOR GRADE CARPET TREADS, CUSHION FEET BETWEEN BOTH DOOR THRESHOLD AND ABOVE FLOOR, NOT RECESSED IN CONCRETE. COORDINATE WITH OWNER.
22. FIRE PROTECTION STAND PIPES. COORDINATE WITH MECHANICAL AND FIRE PROTECTION.

WALL LEGEND:

1 (1'-2")
- 1'-2" THICK CAST IN PLACE FORMED CONCRETE WALL.
- REFER TO STRUCTURAL SHEETS FOR REINFORCEMENT.
- WATER PROOFING MEMBRANE FULL HEIGHT OF WALL BELOW GRADE
- 2" RIDGED BOARD INSULATION FULL HEIGHT OF WALL BELOW GRADE.
- INTEGRATED WATER STOPS AT ALL POUR JOINTS WITH FOUNDATIONS.

1A (1'-10")

WALL TYPE 1A:
- SAME AS WALL TYPE 1 EXCEPT 1'-10" THICKNESS.

2 (1'-2")
- 4" BRICK VENEER
- 2 3/4" CAVITY WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM) AND AIR BARRIER.
- 8" THICK CAST IN PLACE FORMED CONCRETE WALL.
  - REFER TO STRUCTURAL SHEETS FOR REINFORCEMENT.
  - WATER PROOFING MEMBRANE FULL HEIGHT OF WALL BELOW GRADE
  - 2" RIDGED BOARD INSULATION FULL HEIGHT OF WALL BELOW GRADE / BRICK LEDGE.
  - INTEGRATED WATER STOPS AT ALL POUR JOINTS WITH FOUNDATIONS.

2A (1'-10")

WALL TYPE 2A:
- SAME AS WALL TYPE 2 EXCEPT 1'-10" THICKNESS.

3 (1'-2")
- 4" BRICK VENEER
- 2 3/4" CAVITY WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM) AND AIR BARRIER
- 8" C.M.U. WALL
- REFER TO BUILDING ELEVATION FOR COURSING AND MATERIAL.
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

3A (1'-10")

WALL TYPE 3A:
- SAME AS WALL TYPE 3 EXCEPT 1'-10" THICKNESS

4 (10")
- 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

4A (1'-0")
- 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 1/2" EXTERIOR GRADE PLYWOOD ON 1 1/2" Z-GIRTS FRAMING AT 16" O.C. WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM).
- AIR BARRIER
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOV

5 (8")
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

5A (8")

FIRE BARRIER WALL:
- UL DESIGN NO. U905 - ONE HOUR RATING
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

6
- COLUMN ENCLOSURE: 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 1/2" EXTERIOR GRADE PLYWOOD ON 18 GA - 4" COLD FORMED METAL FRAMING AT 12" O.C. PROVIDE #5 VERTICAL DOWELS @12" O.C. FOR TWO CMU COURSES.

7 (4 1/2")

5/8" GYPSUM BOARD ON BOTH SIDES OF 18 GA - 3-5/8" METAL STUDS @ 16" O.C WITH:
- FULL HEIGHT SOUND BATT INSULATION.
- EXTEND TO UNDERSIDE OF ROOF DECK U.N.O.
- PROVIDE DEFLECTION TRACK @ ROOF TO WALL CONNECTION.
- BRACE TOP WALL TO NEAREST STEEL MEMBER AT 4'-0" O.C. MAXIMUM.
- SEAL ALL PENETRATIONS IN WALL.

7A (6")

WALL TYPE 7A:
- SAME AS WALL TYPE 7 EXCEPT FOR 18 GA - 6" METAL STUDS AT 16" O..C

7B (4")

WALL TYPE 7B:
- SAME AS WALL TYPE 7 OR 7A EXCEPT FOR GYPSUM BOARD ON ONE SIDE ONLY

8 (4 1/2")

FIRE BARRIER SHAFT WALL: 5/8" FIRE RATED GYPSUM BOARD ON MINIMUM 18 GA. 4" DEEP METAL "C-H" SHAPED STUDS @ 16" O.C WITH 1" FIRE RATED GYPSUM LINER BOARD.
- UL DESIGN NO. U415 - ONE HOUR RATING
- FULL HEIGHT SOUND BATT INSULATION AS APPROVED BY THE UL DESIGN
- EXTEND TO UNDERSIDE OF ROOF DECK.
- PROVIDE DEFLECTION TRACK @ ROOF TO WALL CONNECTION.APPROVED BY THE UL DESIGN
- PROVIDE NER-258 DESIGN AT BASE OF SHAFT AT FLOOR OPENING..

9 (2")
- 5/8" GYPSUM BOARD ON 20 GA. 1-1/2" METAL STUDS @ 16" O.C. EXTEND TO UNDERSIDE OF DECK
- EXTEND 6" ABOVE CEILING U.N.O.
- FULL HEIGHT R-6 BATT INSULATION (PROVIDED R-6 SEMI RIDGED INSULATION ABOVE CEILING WHERE GYPSUM BOARD IS ABSENT.

9A (4")

WALL TYPE 9A:
- SAME AS WALL TYPE EXCEPT FOR 18 GA - 3-5/8" METAL STUDS @ 16" O.C
- FULL HEIGHT R-11 BATT INSULATION (PROVIDED R-11 SEMI RIDGED INSULATION ABOVE CEILING WHERE GYPSUM BOARD IS ABSENT.

ISSUED FOR	DATE
SPA	8-5-2019
SPA REVISIONS	9-16-2019
SPA REVISIONS	10-3-2019
PERMITS	08.23.2021

ARCHITECTURAL DESIGN

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : 1/8" = 1'-0"

FILE NAME : 19054_A102

JOB #: 19059

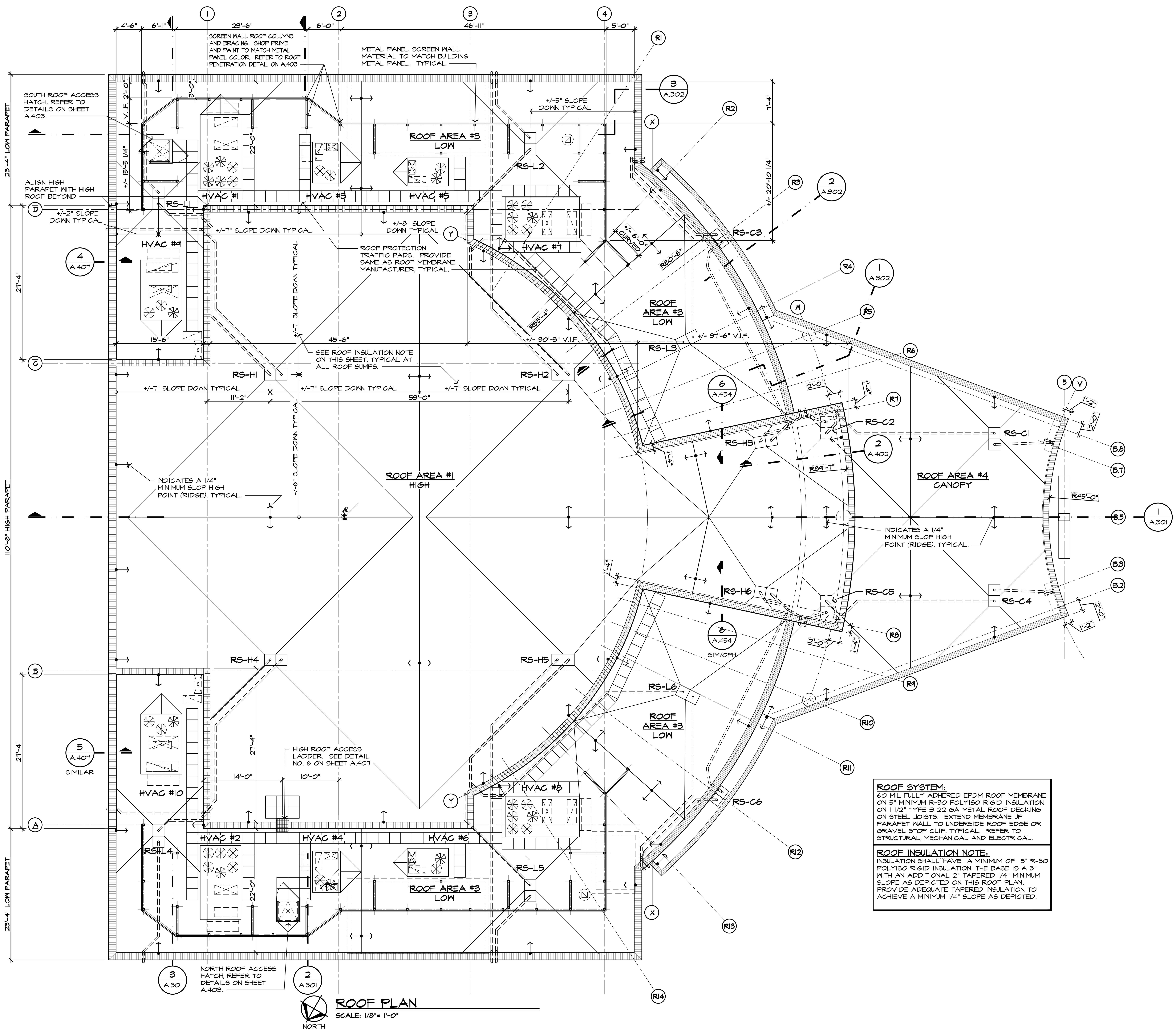
SHEET TITLE

GROUND LEVEL FLOOR PLAN

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

SHEET #

A.102



ROOF PLAN
SCALE: 1/8"= 1'-0"

ROOF PLAN GENERAL NOTES:

1. SEE MECHANICAL DRAWINGS FOR ALL ROOF EQUIPMENT
2. MAINTAIN MINIMUM OF 10 FEET BETWEEN RTU'S INTAKES AND EXHAUST.
3. VERIFY RTU SIZE WITH MANUFACTURER FOR CURB SIZES AND LOCATIONS.
4. COORDINATE ROOF CONDUCTORS WITH PLUMBING, STEEL AND CONCRETE FOUNDATION CONTRACTORS.

STORM DRAINAGE:

ROOF AREA #1 - HIGH:

ROOF AREA	= 9,100 SF
VERTICAL WALL AREA = 455 L.F. X 1.67 HT.	= 760 SF
	= 9,860
0.0291 GPM/SF x 9,860 SF	= 287 GPM

ROOF AREA #2 & #3 - LOW (EACH):

ROOF AREA	= 3,800 SF
VERTICAL WALL AREA = 382 L.F. X 1.33 HT.	= 508 SF
	= 4,308 SF
0.0291 GPM/SF x 4,308 SF	= 126 GPM

ROOF AREA #4 - CANOPY:

ROOF AREA	= 2,550 SF
VERTICAL WALL AREA = 350 L.F. X 0.83 HT.	= 290 SF
	= 2,840 SF
0.0291 GPM/SF x 2,840 SF	= 83 GPM

ROOF SYSTEM:
60 MIL FULLY ADHERED EPDM ROOF MEMBRANE ON 5" MINIMUM R-30 POLYISO RIGID INSULATION ON 1 1/2" TYPE B 22 GA METAL ROOF DECKING ON STEEL JOISTS. EXTEND MEMBRANE UP PARAPET WALL TO UNDERSIDE ROOF EDGE OR GRAVEL STOP CLIP, TYPICAL. REFER TO STRUCTURAL, MECHANICAL AND ELECTRICAL.

ROOF INSULATION NOTE:
INSULATION SHALL HAVE A MINIMUM OF 5" R-30 POLYISO RIGID INSULATION. THE BASE IS A 3" WITH AN ADDITIONAL 2" TAPERED 1/4" MINIMUM SLOPE AS DEPICTED ON THIS ROOF PLAN. PROVIDE ADEQUATE TAPERED INSULATION TO ACHIEVE A MINIMUM 1/4" SLOPE AS DEPICTED.

STATE OF MICHIGAN
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DRAWN:	DESIGNED:	CHECKED:
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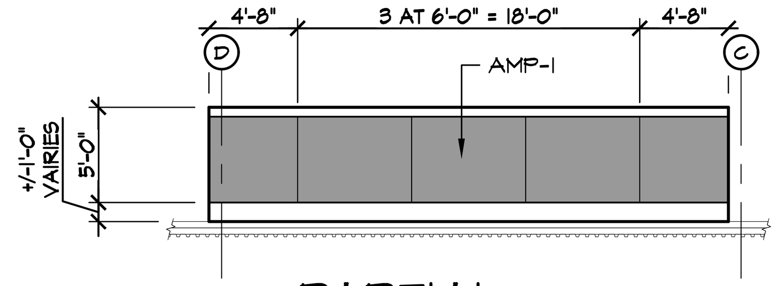
SCALE : 1/8" = 1'-0"
FILE NAME : 19059_A131
JOB #: 19059
SHEET TITLE
GROUND LEVEL FLOOR PLAN
SHEET #
A.131



6 A.201 PARTIAL BUILDING ELEVATION - EAST
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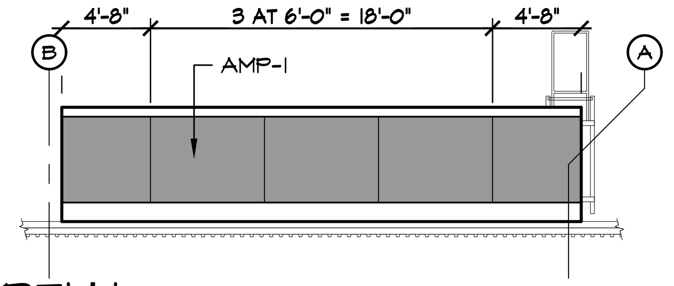

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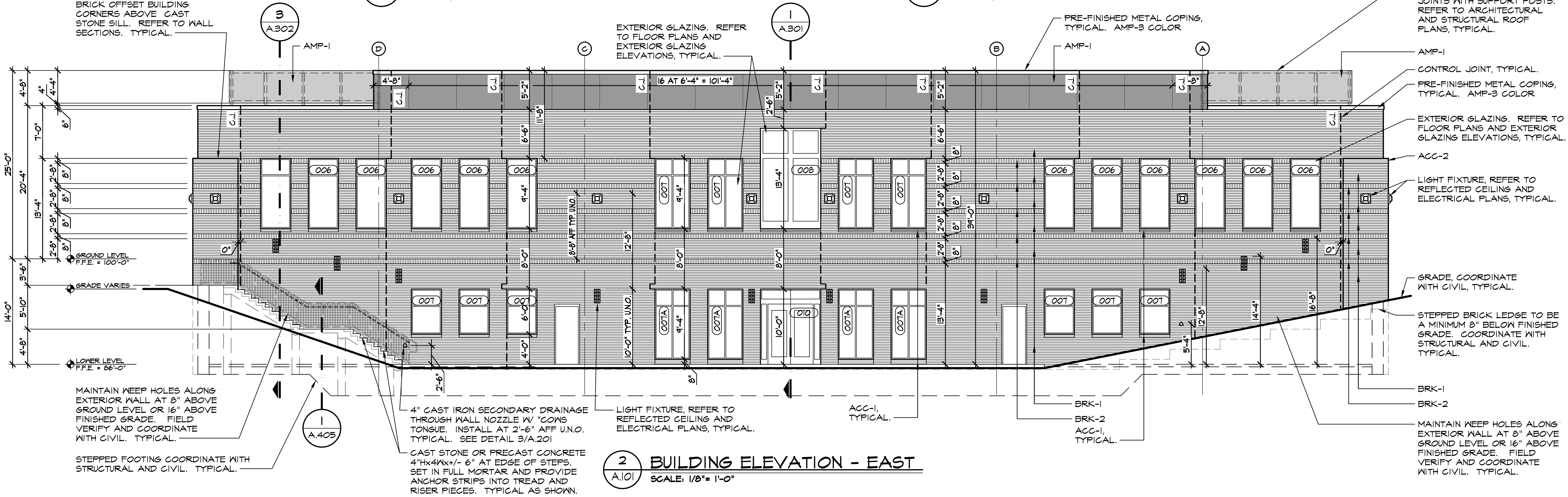

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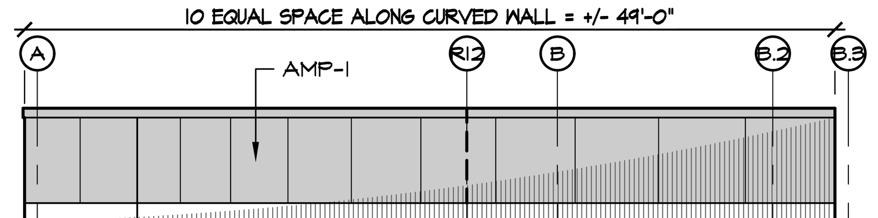
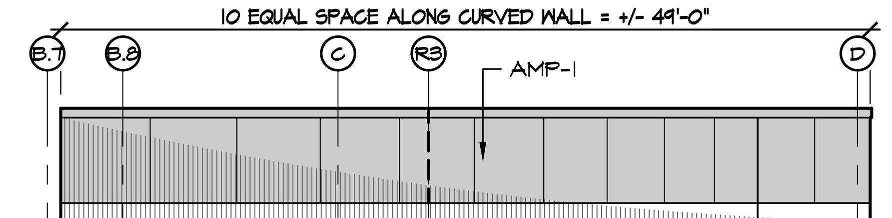
SCALE: 1/8" = 1'-0"



4 A.201 PARTIAL BUILDING ELEVATION - WEST
SCALE: 1/8" = 1'-0"



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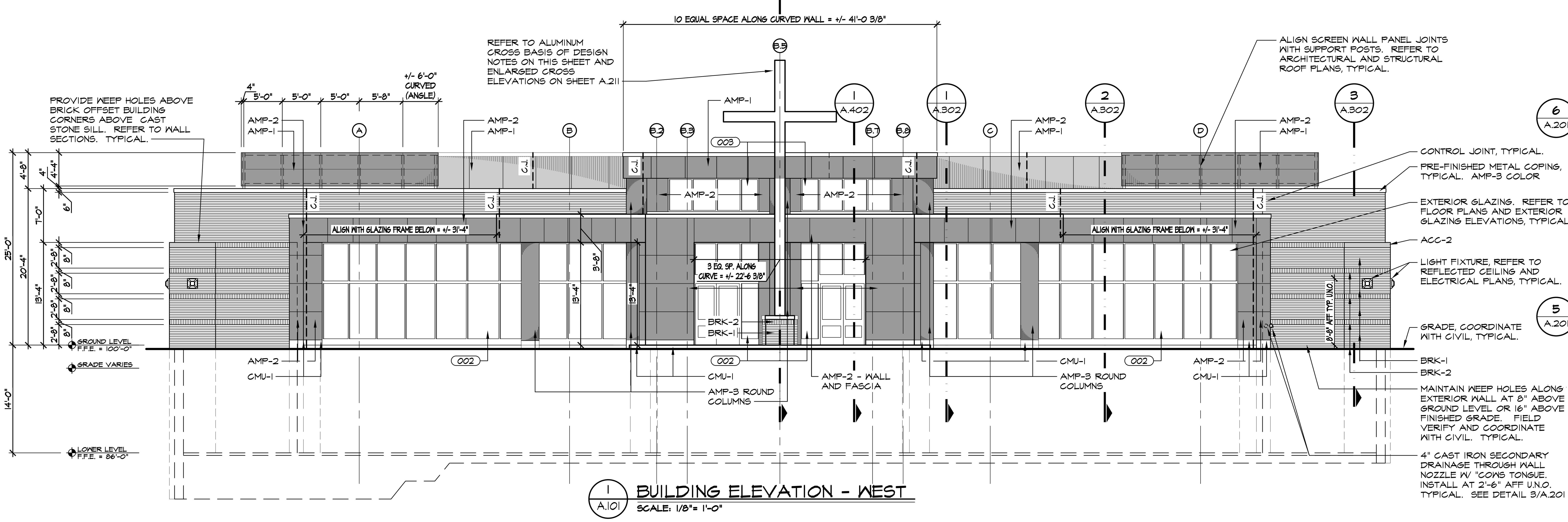
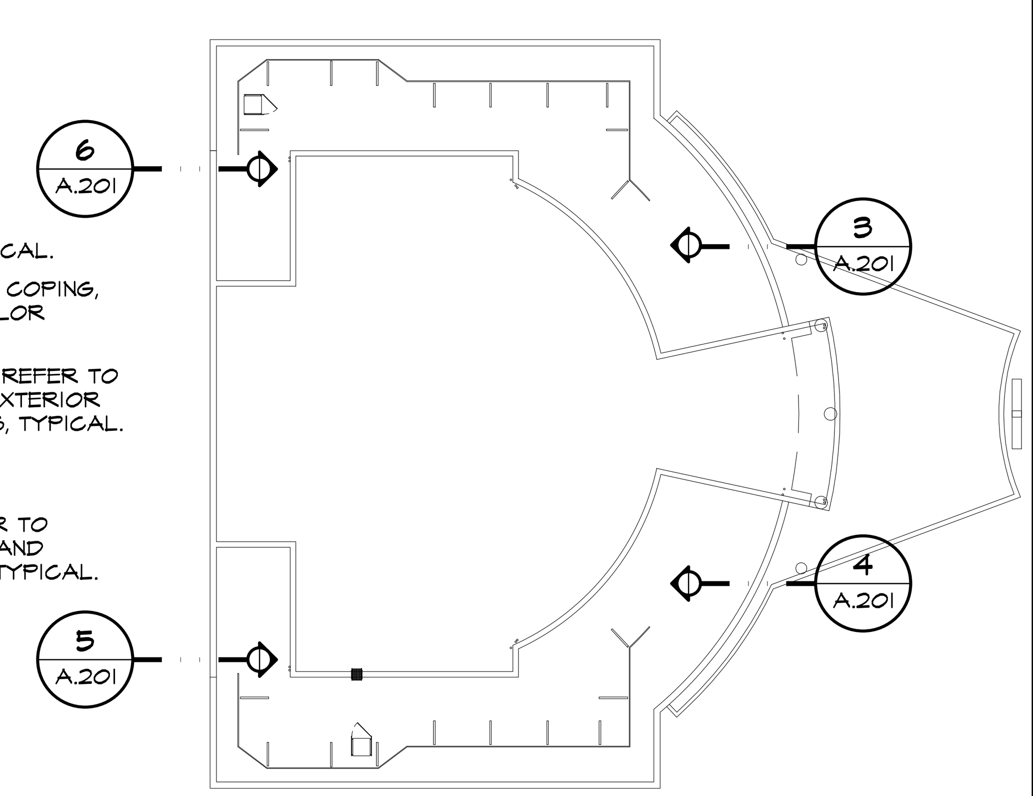
SCALE: 1/8" = 1'-0"



1 A.101 BUILDING ELEVATION - WEST
SCALE: 1/8" = 1'-0"



BUILDING ELEVATIONS GENERAL NOTES:

1. REFER TO SITE APPROVAL RENDERING FOR COLOR SELECTION AND COORDINATE WITH OWNERS. COLOR MUST MATCH RENDERING AS CLOSE AS POSSIBLE OR BE APPROVED BY THE CITY PRIOR TO CONSTRUCTION.
2. REFER TO REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS FOR LIGHTING.

MATERIAL LEGEND:

COORDINATE AND VERIFY ALL SELECTIONS WITH OWNER AND WITH SELECTIONS/DETAILS.

BRK-1: BRICK VENEER BROWN COLOR - RUNNING BOND COURSING
BRK-2 BRICK VENEER ORANGE COLOR - SOLDIER COURSING

CMU-1: PRE-FINISH SMOOTH FACE CMU

CSS-1: CAST STONE WINDOW SILL
CSS-2: CAST STONE SILL

AMP-1 ARCHITECTURAL METAL PANEL DARK GUN METAL / GRAY COLOR. UPPER ROOF PARAPET, FASCIA AND SCREEN WALL.
AMP-2 ARCHITECTURAL METAL PANEL COPPER/ORANGE COLOR. LOW ROOF AT MAIN ENTRANCE CANOPY / OVERHANG.
AMP-3 ARCHITECTURAL METAL PANEL LIGHT GUN METAL / SILVER COLOR. ROUND COLUMN ENCLOSURES OF LOW AND HIGH ROOF OVERHANGS.

ARCHITECTURAL METAL WALL PANEL (AMP):
1. VERIFY SELECTION AND COORDINATE WITH OWNER.
2. PANELS TO BE FURNISHED AND INSTALLED BY A DEALER / DISTRIBUTOR MEETING THE MANUFACTURER SPECIFICATIONS.
3. PROVIDE PRE-FINISHED REVEAL BY WALL PANEL CONTRACTOR. MATCH PANEL FINISH, TYPICAL AT VERTICAL AND HORIZONTAL JOINTS.
4. PROVIDE SEALANT ON BACKER ROD ON ALL VERTICAL JOINTS.
5. PROVIDE RECESSED METAL TRIM IN HORIZONTAL REVEAL JOINTS WITHOUT SEALANT TO ACCOMMODATE PROPER MOISTURE DRAINAGE. COORDINATE WITH MANUFACTURE'S SPECIFICATIONS.
6. SYSTEM IS 2" (+/-) ON COLD-FORMED METAL FRAMING ON BUILDING ENVELOPE OR GALVANIZED STEEL SUPPORT ON THE ROOF SCREEN WALL. REFER TO SECTIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS.

ALUMINUM CROSS BASIS OF DESIGN INTENT:
1. THE CROSS ENGINEERING DESIGN IS A REQUIRED DEFERRED / DELEGATED SUBMITTAL. SELECTED FABRICATOR / INSTALLER SHALL SUBMIT SIGNED AND SEALED ENGINEERED DRAWINGS MEETING THE BASIS OF DESIGN ON THESE DOCUMENTS.
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4. CROSS COLOR SHALL MATCH AMP-1 COLOR
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8. FABRICATOR / INSTALLER TO COORDINATE ANY AND ALL SPECIAL REQUIREMENTS SUCH AS, BUT NOT LIMITED TO, LIGHTENING PROTECTION REQUIREMENTS WITH G.C. / C.M.

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GAV ASSOCIATES

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AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : 1/8" = 1'-0"

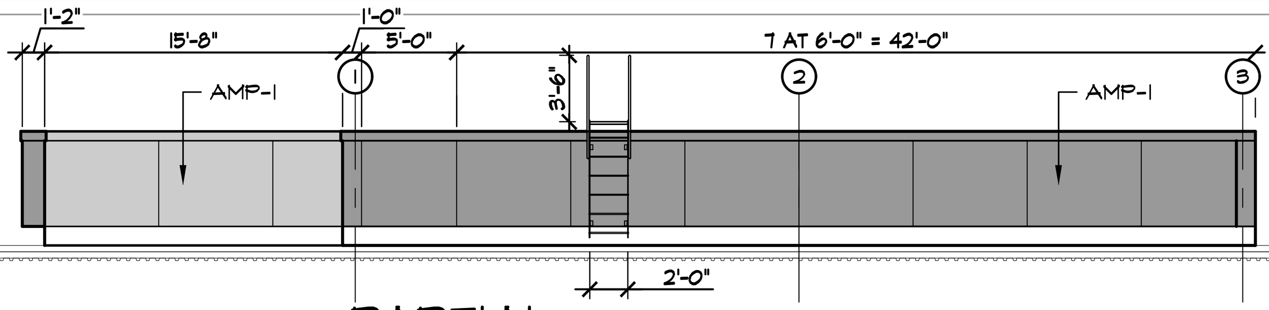
FILE NAME : 19059_A201

JOB #: 19059

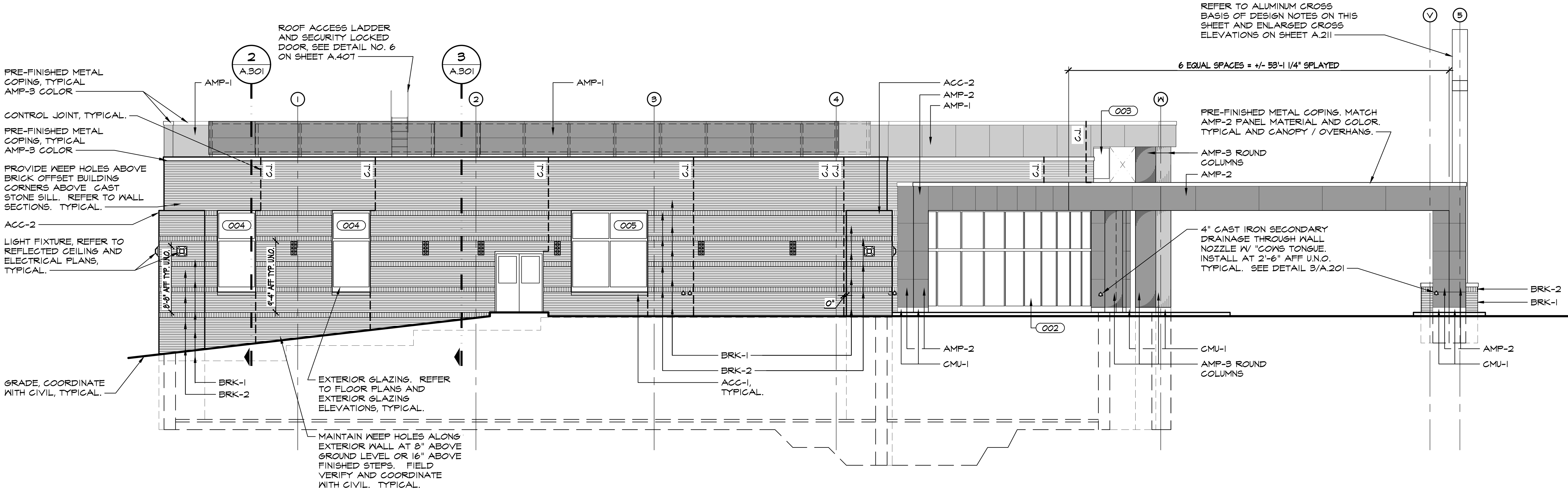
STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

SHEET TITLE
EXTERIOR BUILDING ELEVATIONS

SHEET #
A.201



PARTIAL
BUILDING ELEVATION - NORTH
4 A.202
SCALE: 1/8" = 1'-0"



BUILDING ELEVATION - NORTH
2 A.101
SCALE: 1/8" = 1'-0"

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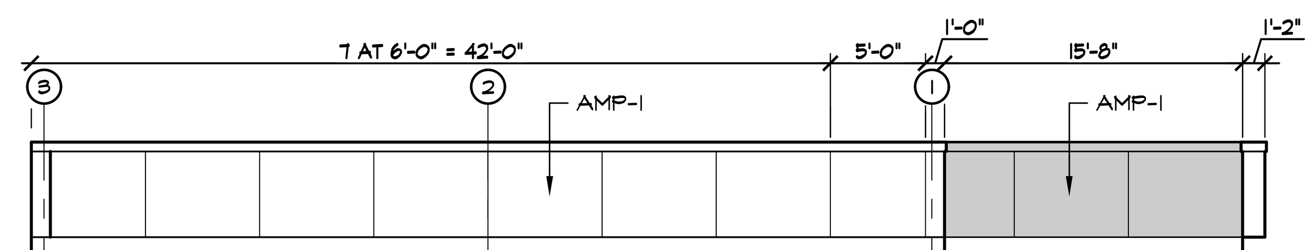
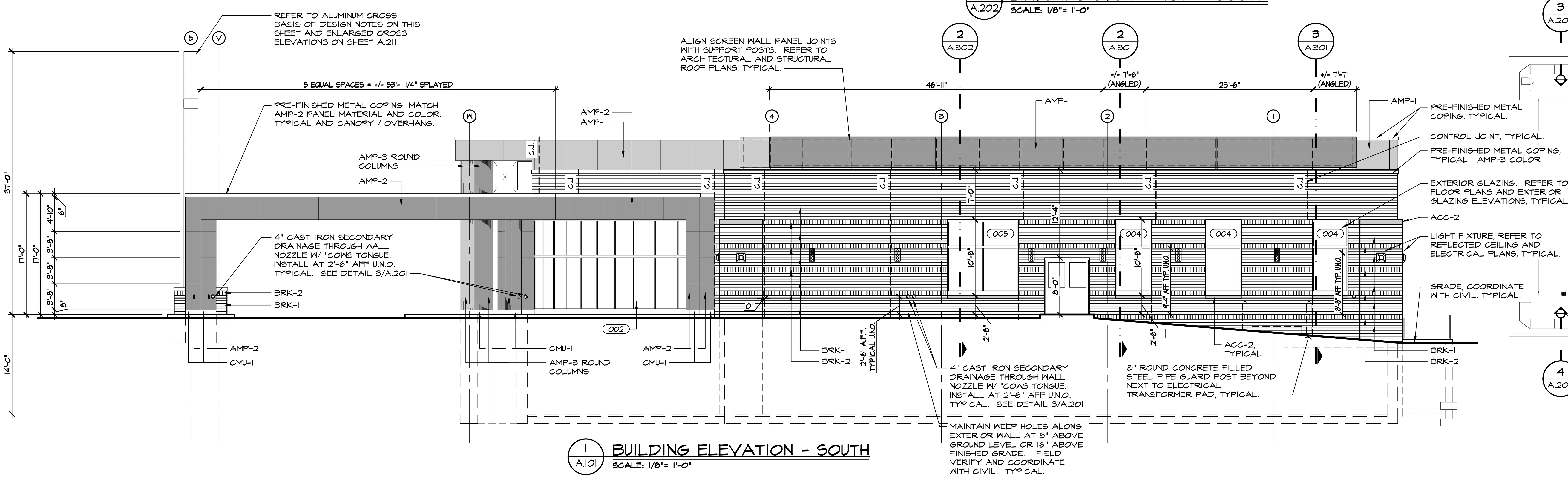
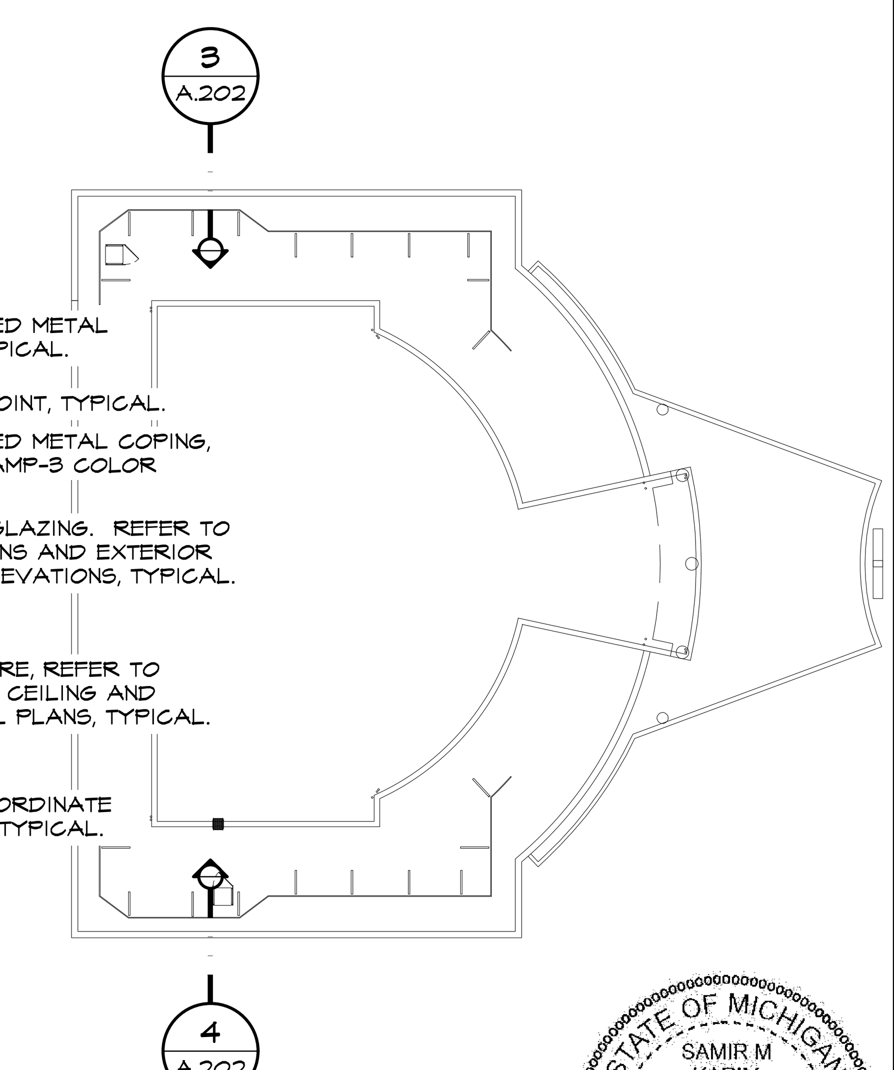


PARTIAL
BUILDING ELEVATION - SOUTH
3 A.202
SCALE: 1/8" = 1'-0"



BUILDING ELEVATION - SOUTH
1 A.101
SCALE: 1/8" = 1'-0"



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AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : 1/8" = 1'-0"
FILE NAME : 19059_A202
JOB #: 19059

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

SHEET TITLE
EXTERIOR BUILDING ELEVATIONS
SHEET #
A.202

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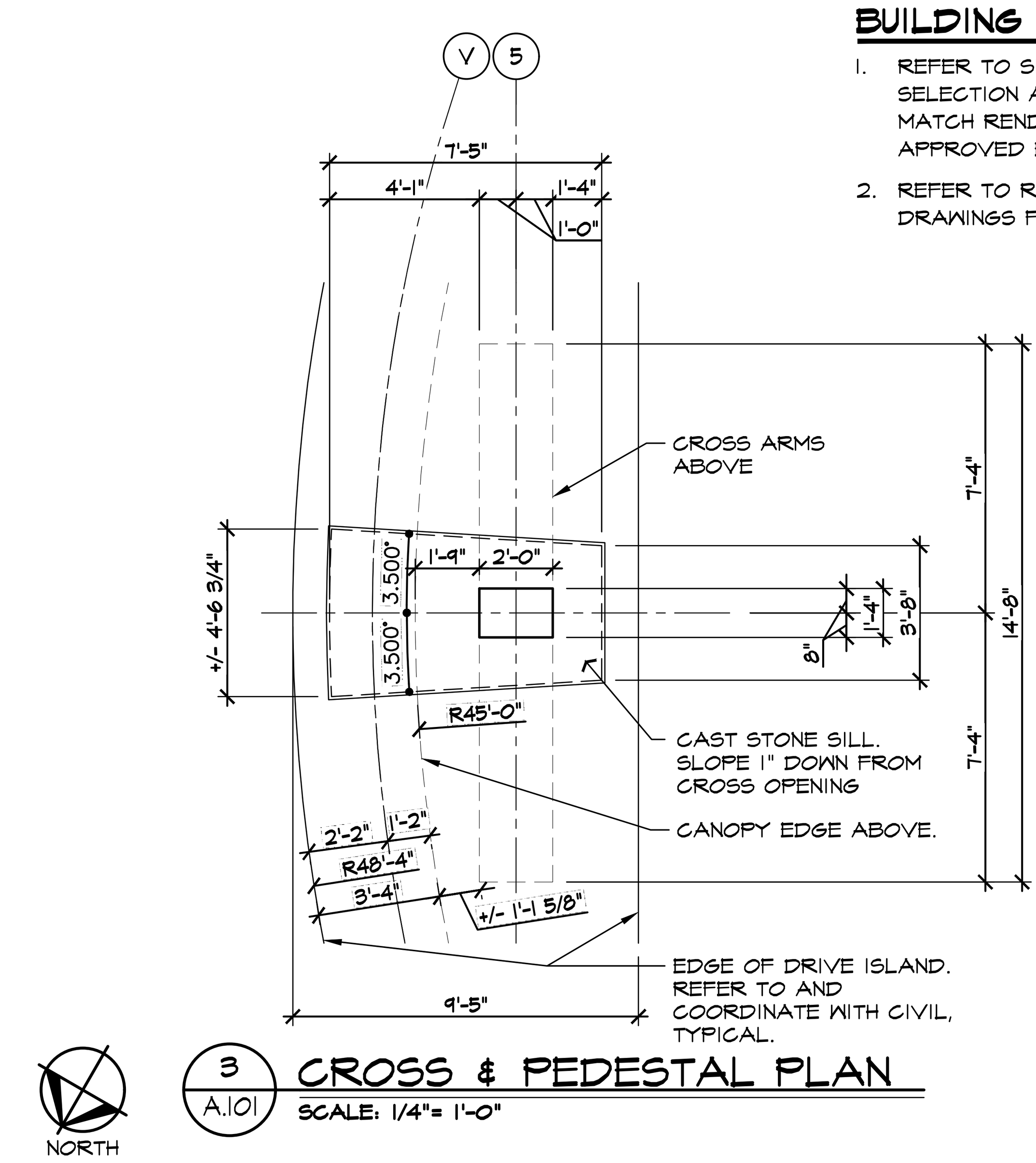
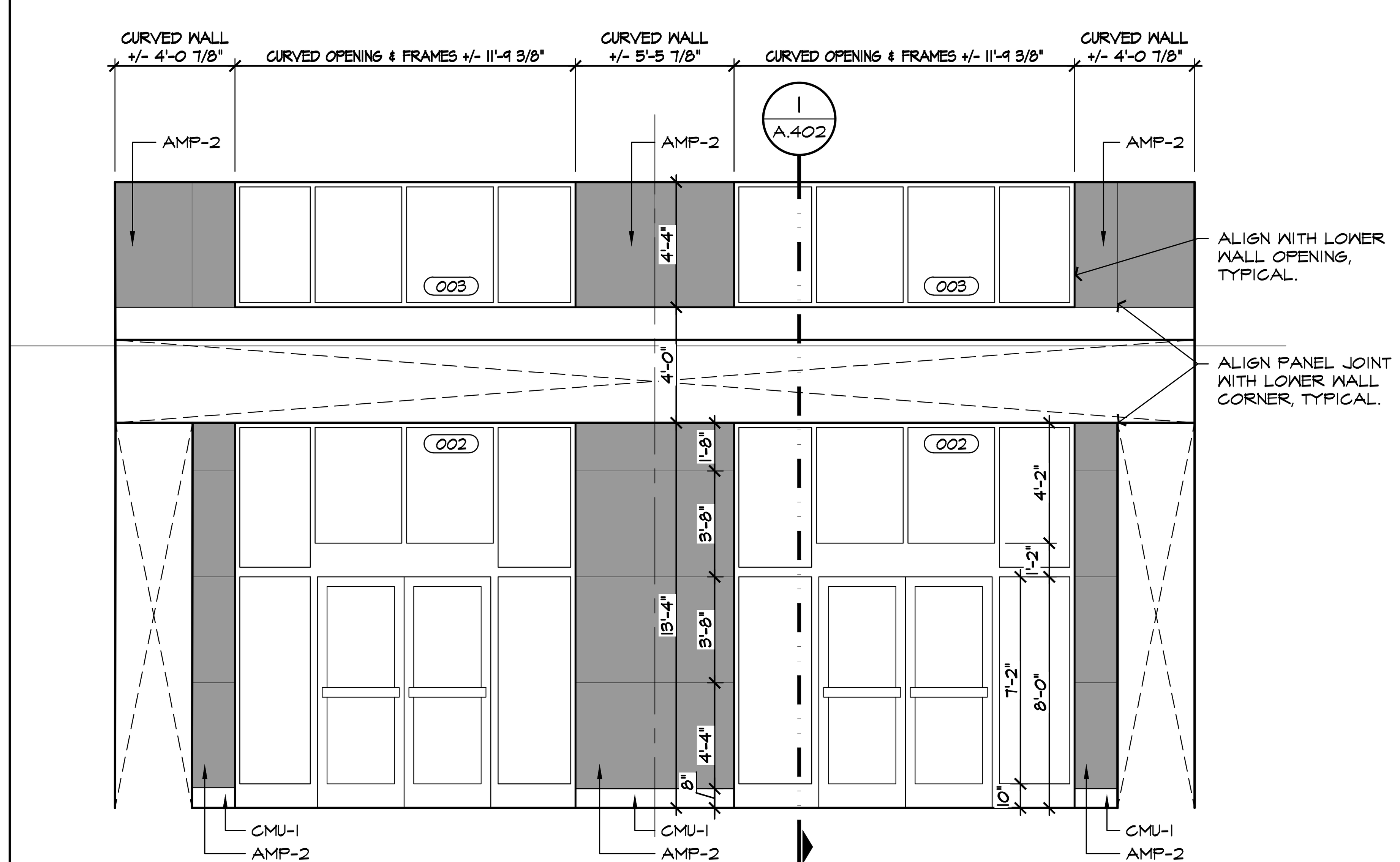
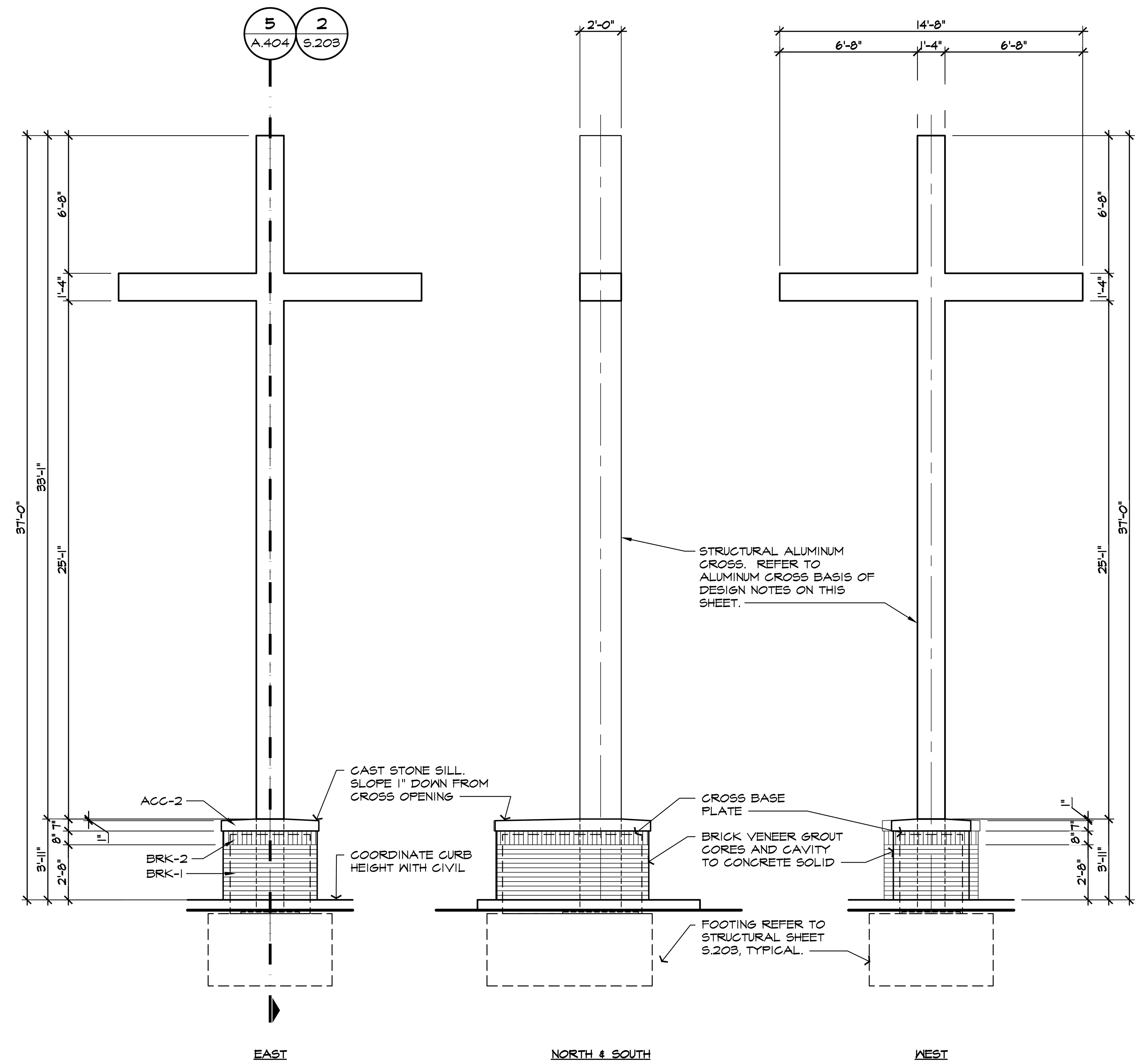


3 A.101 CROSS & PEDESTAL PLAN
SCALE: 1/4"= 1'-0"



REFER TO EXTERIOR GLAZING ELEVATIONS ON SHEET A.004

2 A.102 FLATTENED MAIN ENTRY NORTH ELEVATION
SCALE: 1/4"= 1'-0"



1 A.101 CROSS & PEDESTAL ELEVATIONS
SCALE: 1/4"= 1'-0"

ISSUED FOR	DATE
PERMITS	08.23.2021

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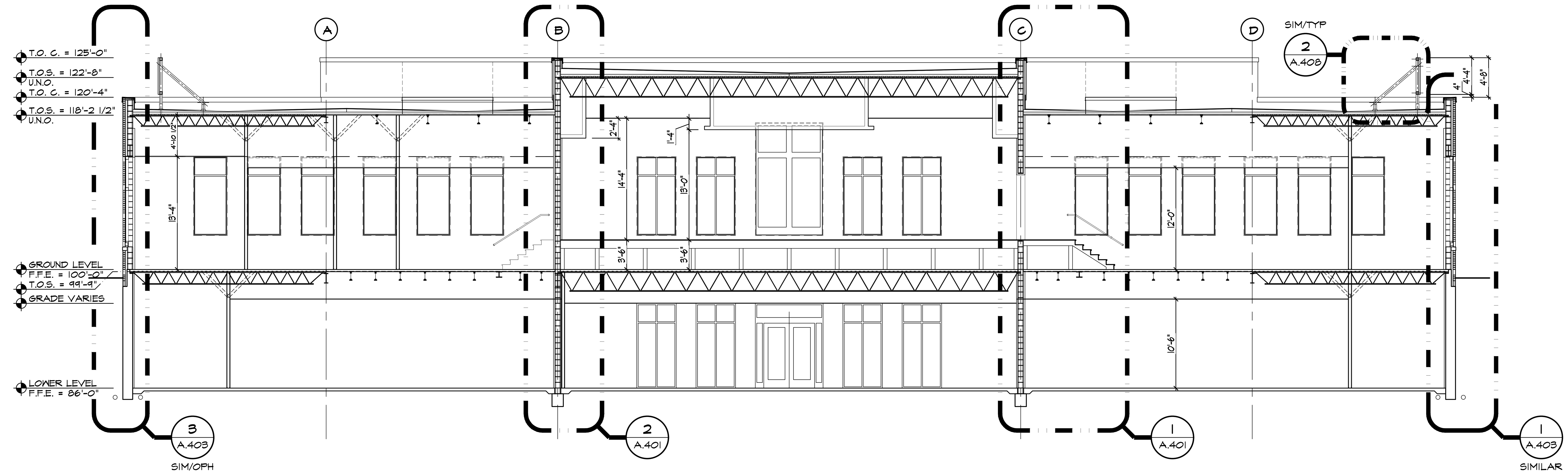
AUBURN HILLS, MICHIGAN 48326

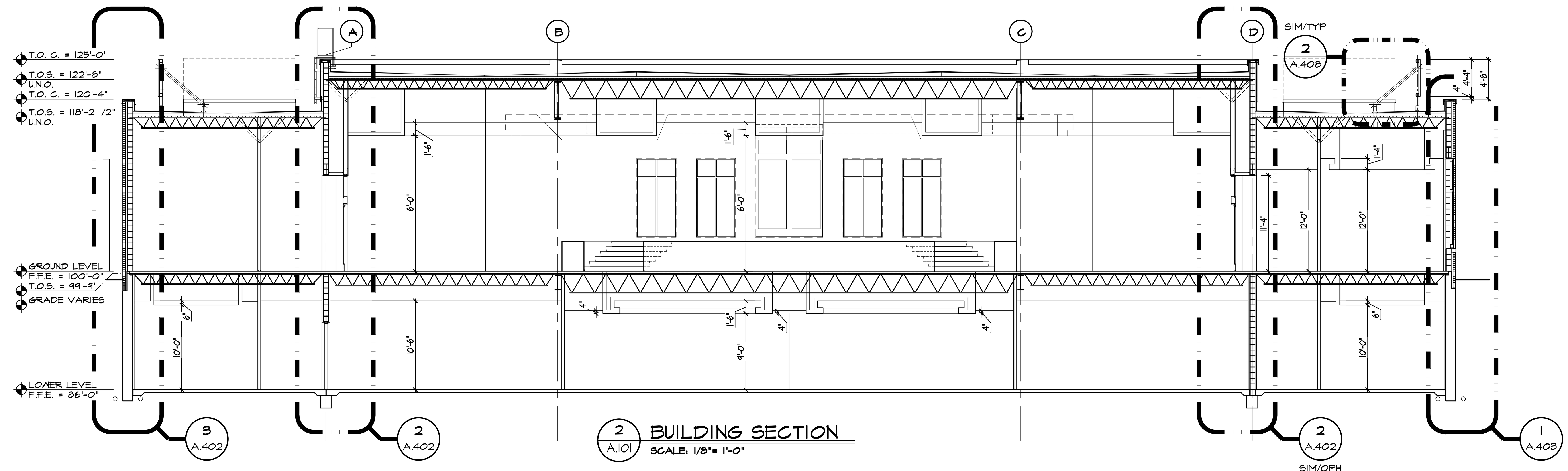
DRAWN:	DESIGNED:	CHECKED:
	DS	DS

SCALE : AS NOTED
FILE NAME : 19054_A211
JOB #: 19059
SHEET TITLE
ENLARGED EXTERIOR ELEVATIONS
SHEET #
A.211

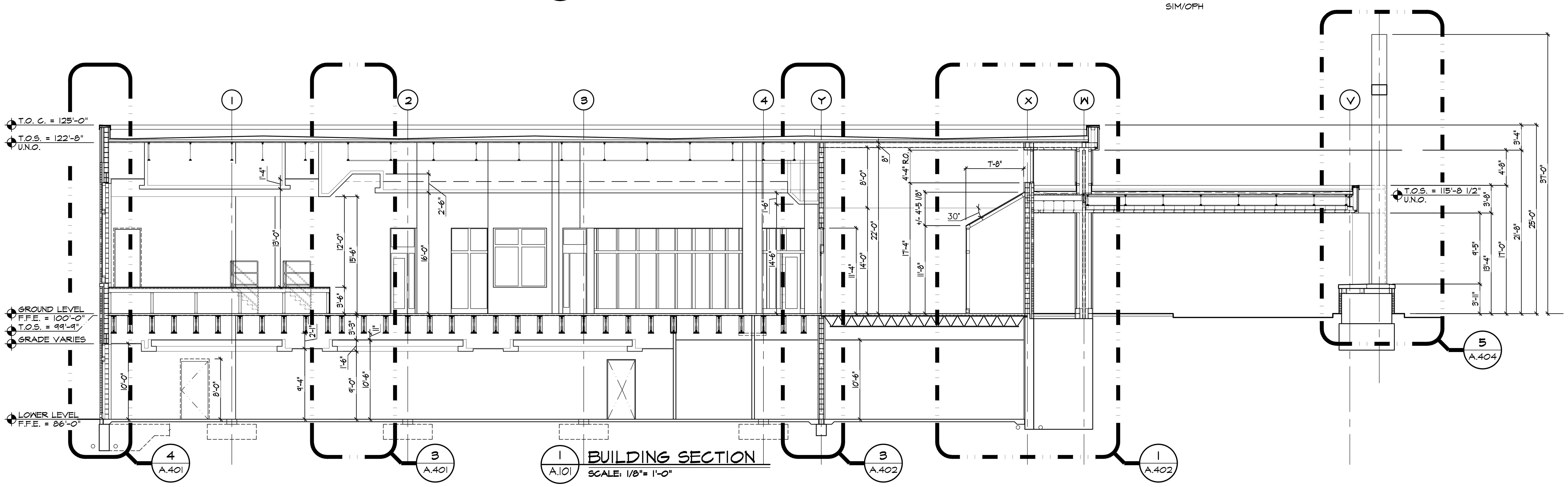
STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT



3 A.101 BUILDING SECTION
SCALE: 1/8" = 1'-0"



2 A.101 BUILDING SECTION
SCALE: 1/8" = 1'-0"



1 A.101 BUILDING SECTION
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DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

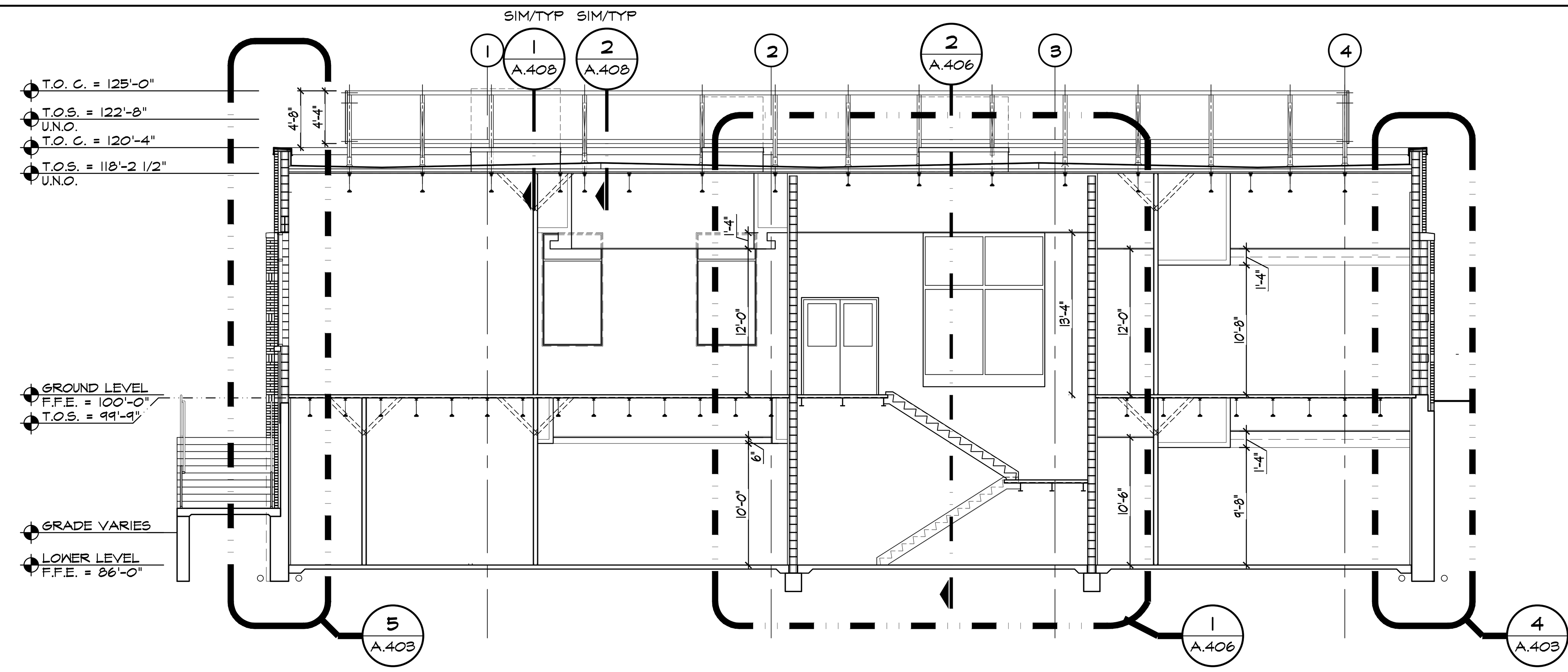
SCALE : 1/8" = 1'-0"

FILE NAME : 19059_A301

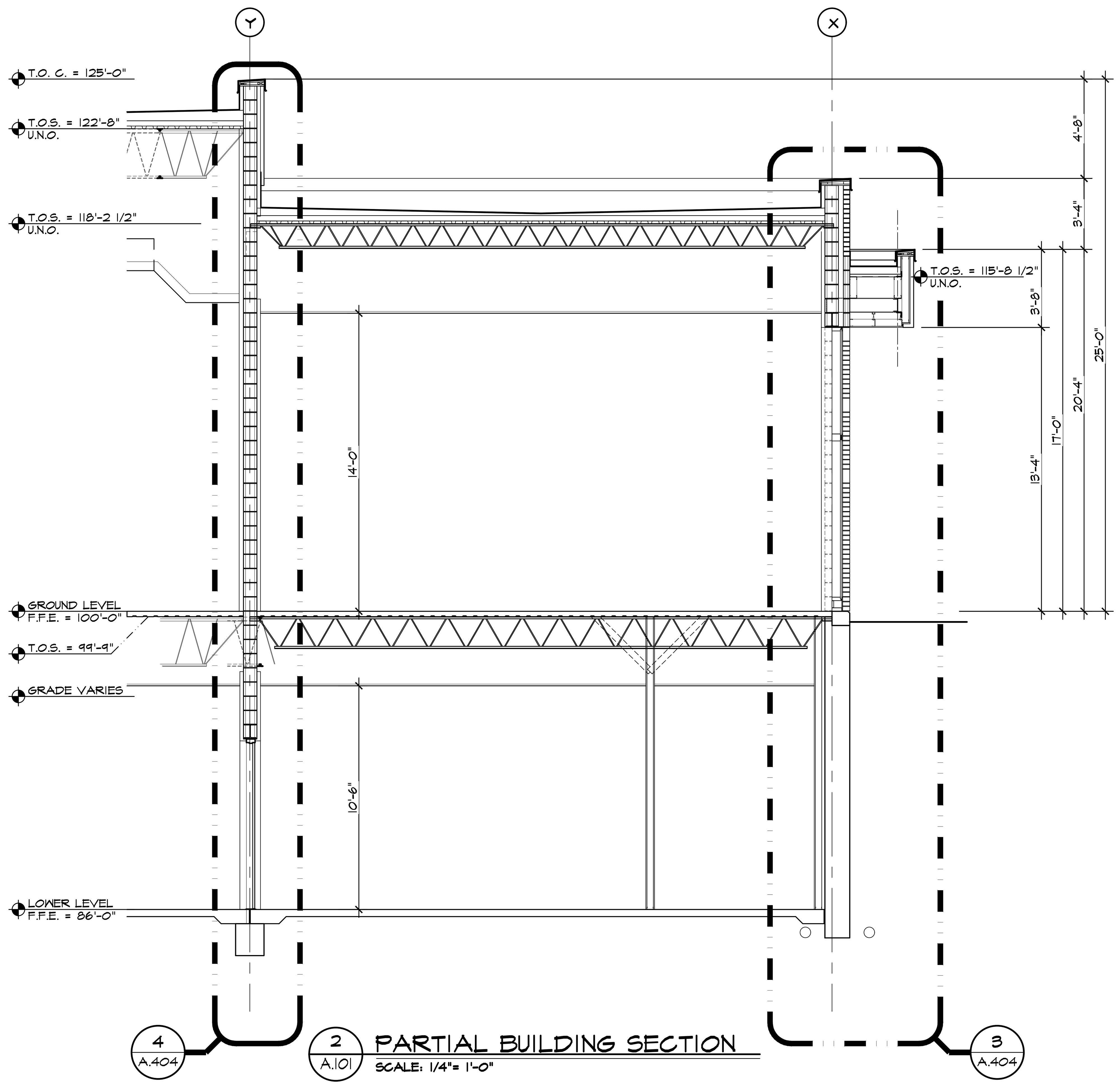
JOB #: 19059

SHEET TITLE
BUILDING SECTIONS

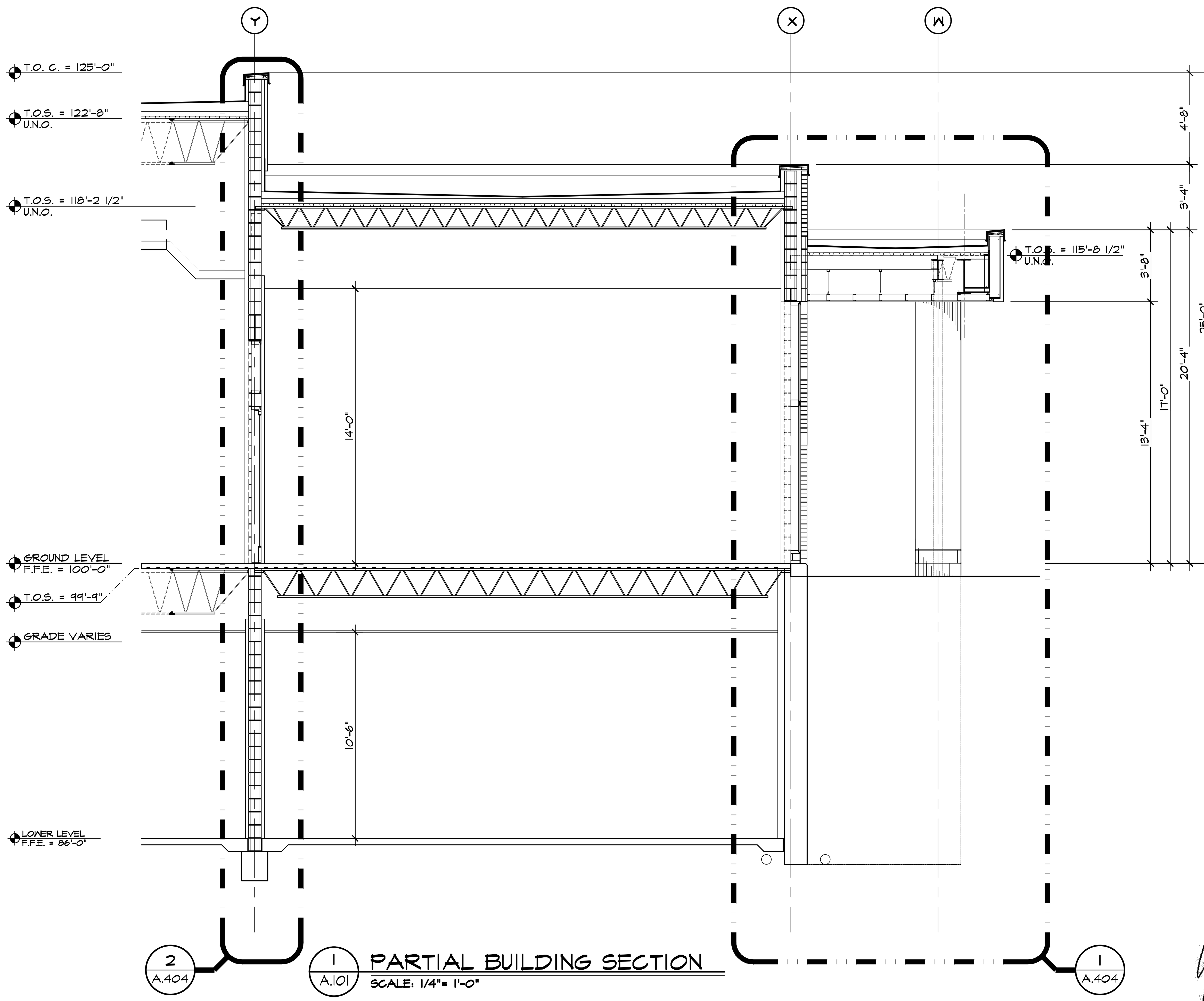
SHEET #
A.301



3 A.304 BUILDING SECTION
SCALE: 1/8" = 1'-0"



2 A.101 PARTIAL BUILDING SECTION
SCALE: 1/4" = 1'-0"



1 A.101 PARTIAL BUILDING SECTION
SCALE: 1/4" = 1'-0"

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN
RESIDENTIAL
COMMERCIAL
INDUSTRIAL

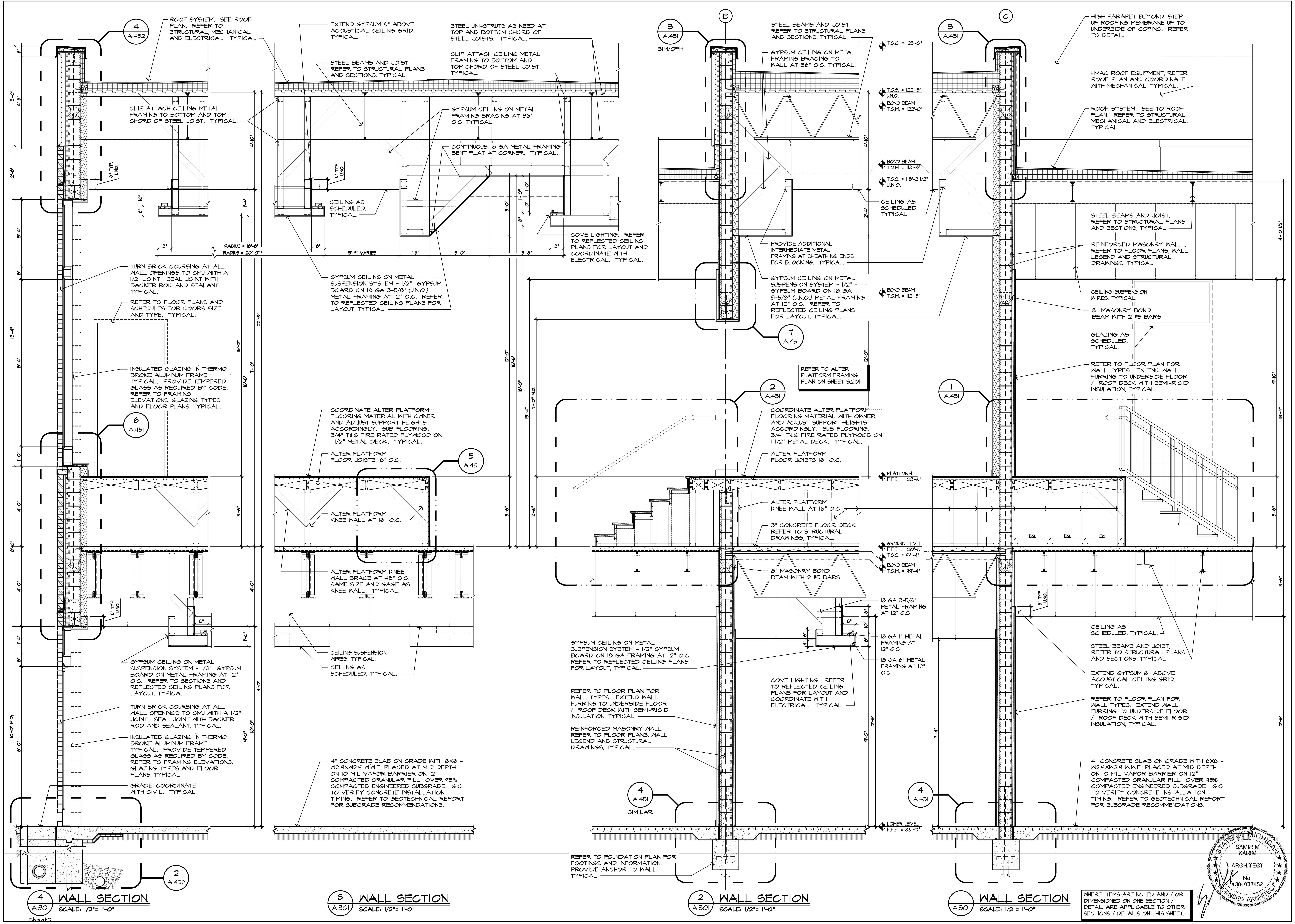
G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : 1/8" = 1'-0"
FILE NAME : 19059_A302
JOB #: 19059
SHEET TITLE
PARTIAL BUILDING SECTIONS
SHEET #
A.302



WHERE ITEMS ARE NOTED AND / OR DIMENSIONED ON ONE SECTION / DETAIL ARE APPLICABLE TO OTHER SECTIONS / DETAILS ON THIS SHEET.

STATE OF MICHIGAN SAMIR M KARIM ARCHITECT No. 1301038452 LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

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3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

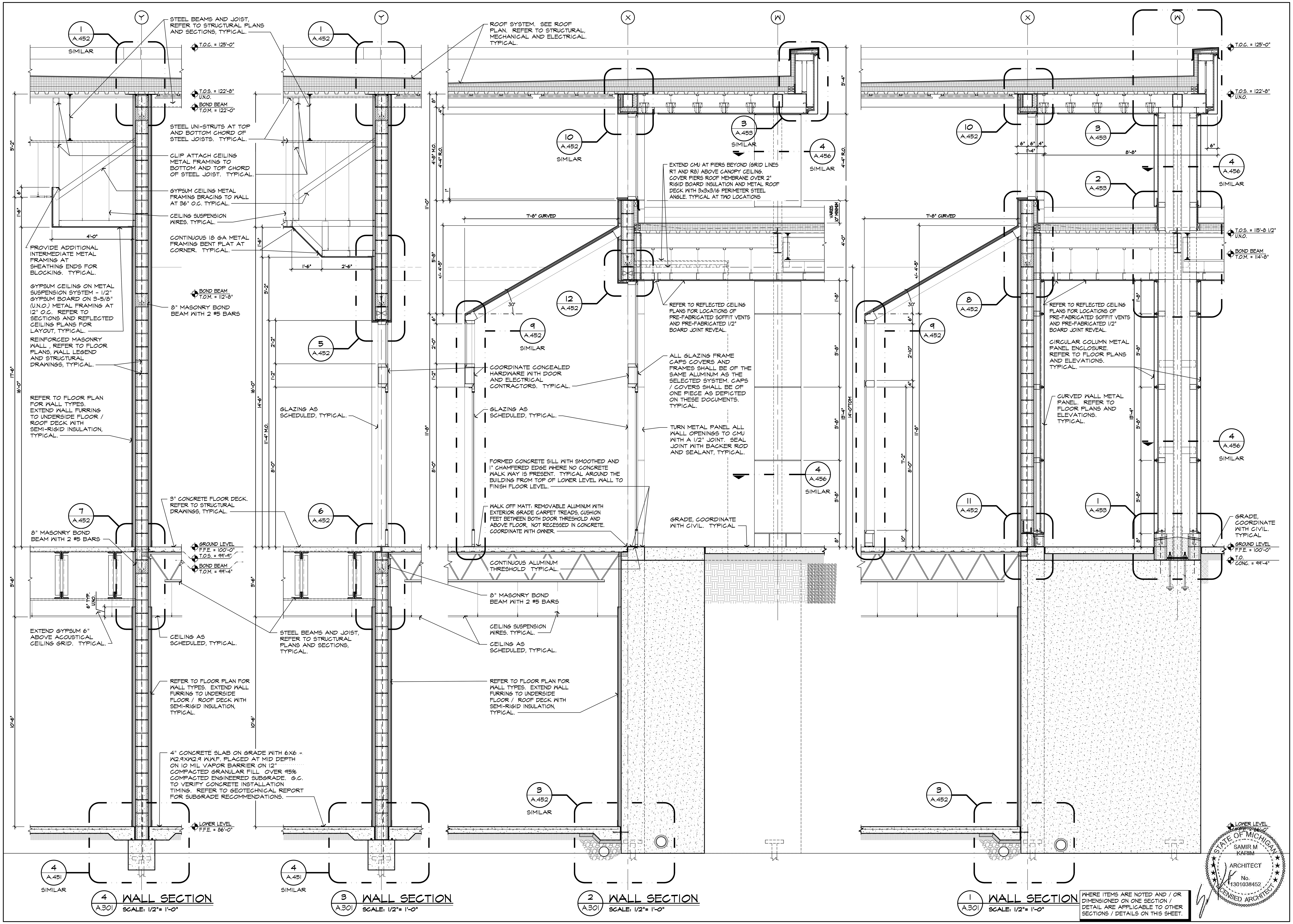
SCALE : 1/2" = 1'-0"

FILE NAME : 19059_A401

JOB #: 19059

SHEET TITLE
WALL SECTIONS

SHEET #
A.401



ISSUED FOR	DATE
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3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : 1/2" = 1'-0"

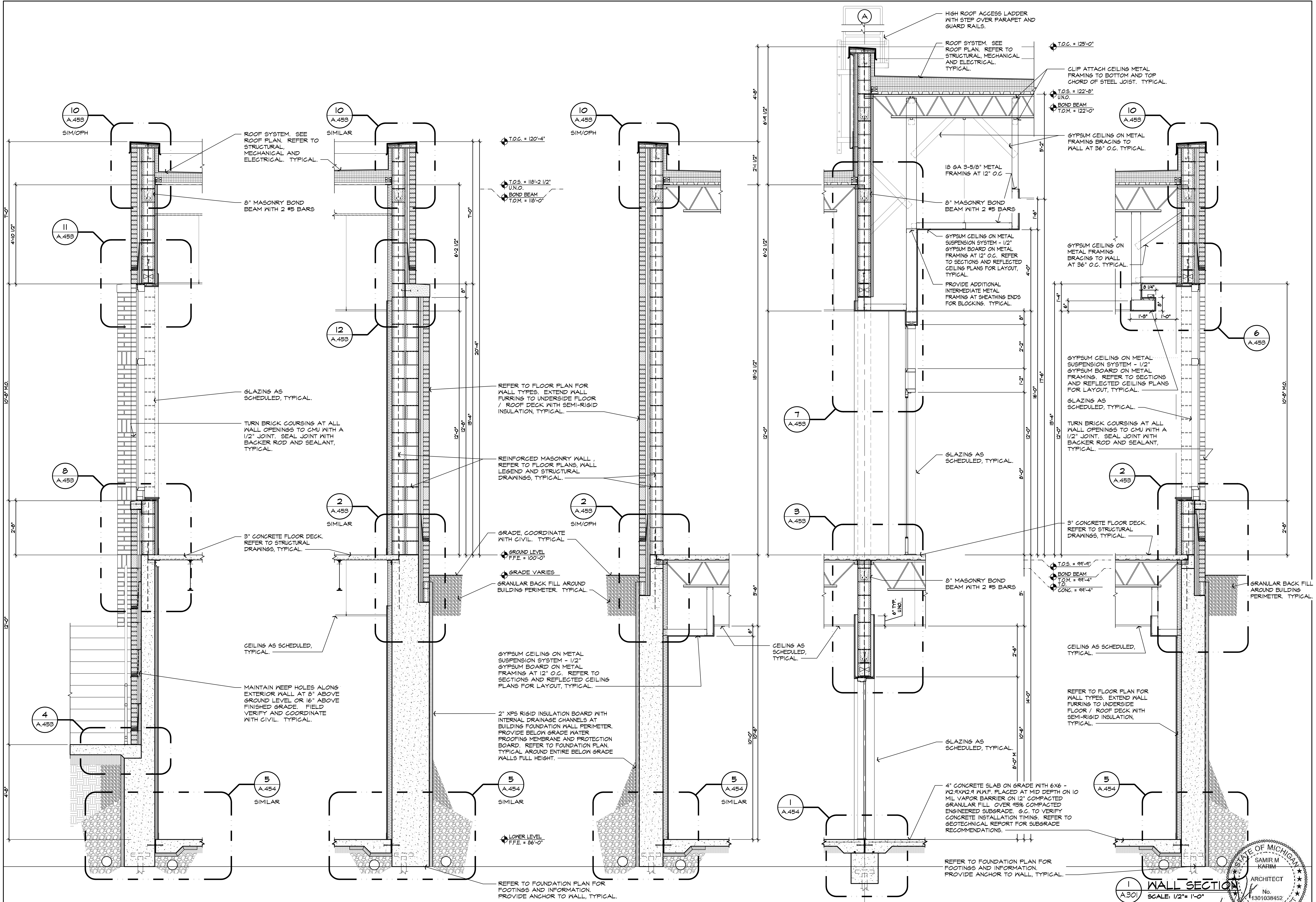
FILE NAME : 19059_A402

JOB #: 19059

SHEET TITLE
WALL SECTIONS

SHEET #
A.402

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT



5 / A.302 **WALL SECTION** SCALE: 1/2"= 1'-0"

4 / A.302 **WALL SECTION** SCALE: 1/2"= 1'-0"

3 / A.301 **WALL SECTION** SCALE: 1/2"= 1'-0"

2 / A.301 **WALL SECTION** SCALE: 1/2"= 1'-0"

1 / A.301 **WALL SECTION** SCALE: 1/2"= 1'-0"

WHERE ITEMS ARE NOTED AND / OR DIMENSIONED ON ONE SECTION / DETAIL ARE APPLICABLE TO OTHER SECTIONS / DETAILS ON THIS SHEET.

SAMIR M KARIM ARCHITECT No. 1301038452 — STATE OF MICHIGAN LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN

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3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

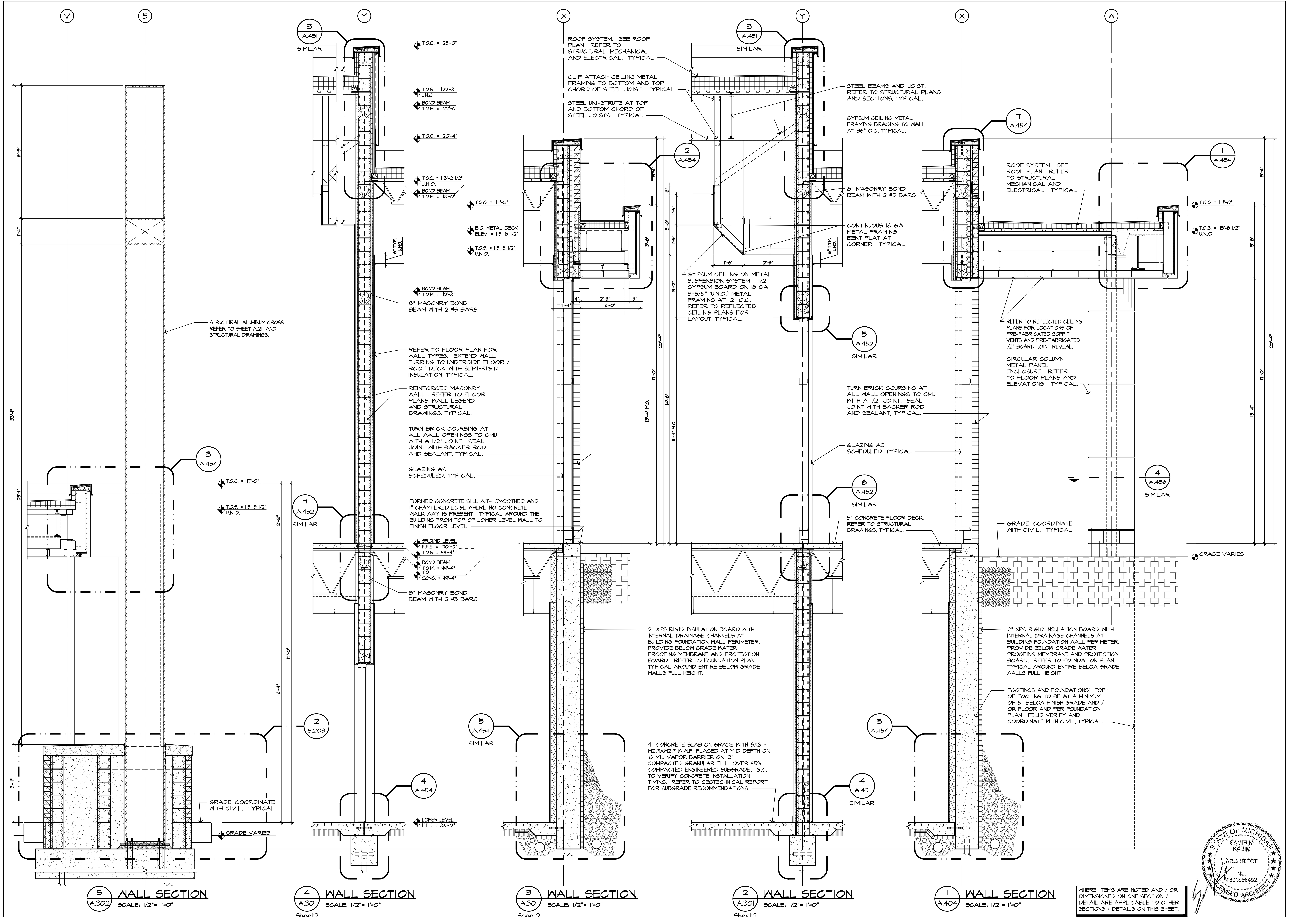
SCALE : 1/2" = 1'-0"

FILE NAME : 19059_A403

JOB #: 19059

SHEET TITLE: WALL SECTIONS

SHEET #: A.403



ISSUED FOR	DATE
PERMITS	08.23.2021

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AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : 1/2" = 1'-0"

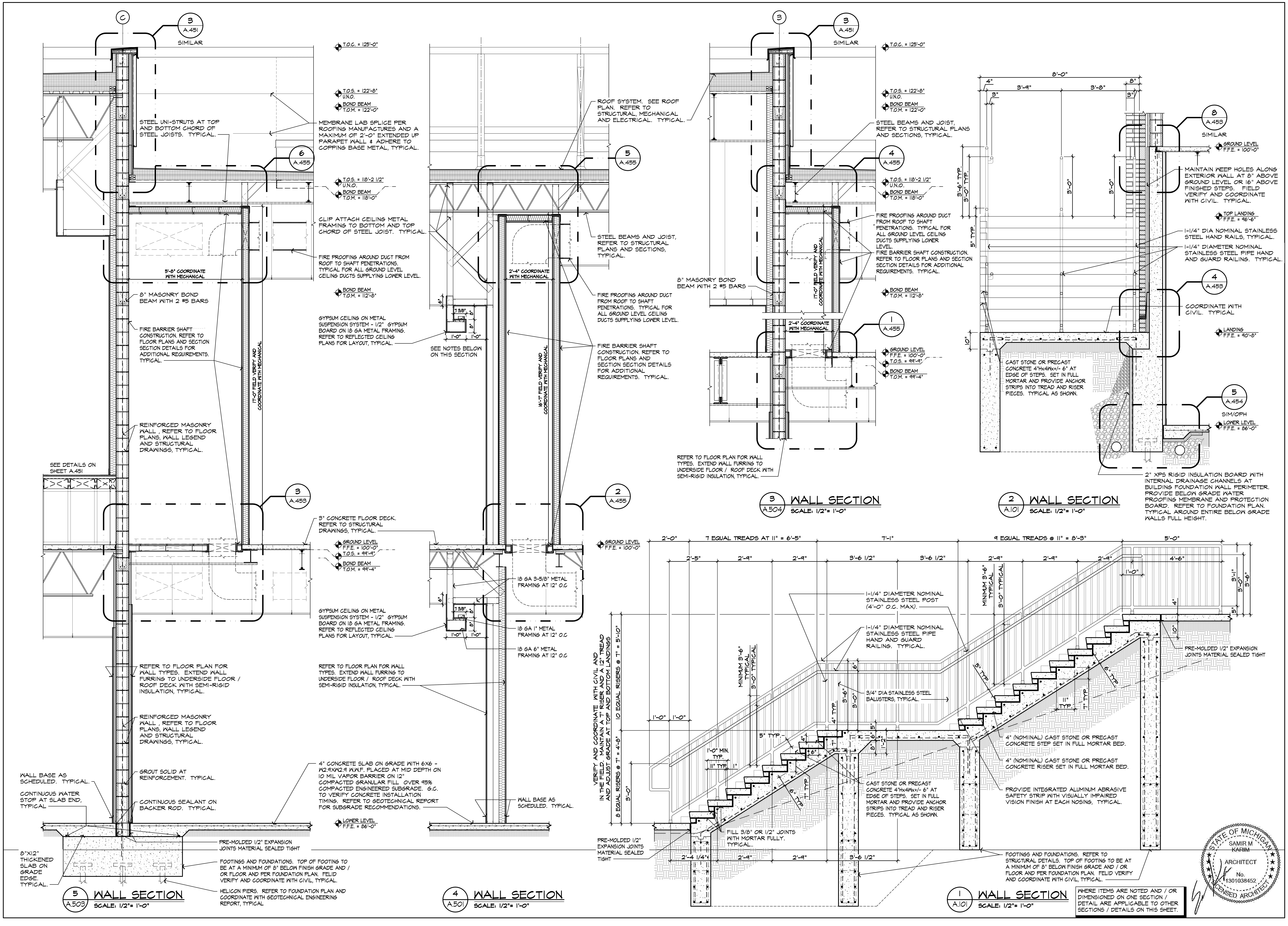
FILE NAME : 19059_A404

JOB #: 19059

SHEET TITLE
WALL SECTIONS

SHEET #
A.404

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT



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DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

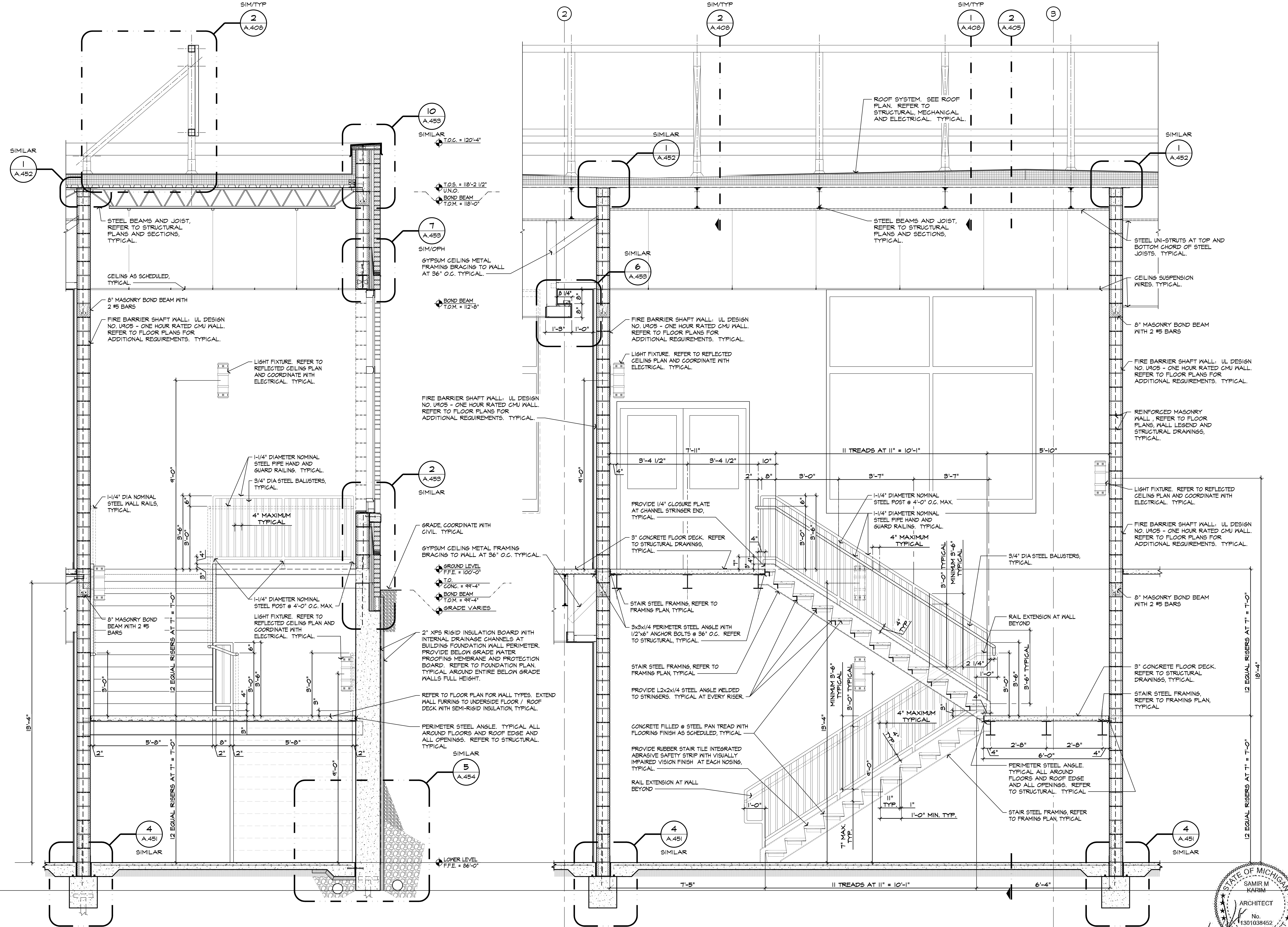
SCALE : 1/2" = 1'-0"

FILE NAME : 19059_A405

JOB #: 19059

SHEET TITLE
WALL SECTIONS

SHEET #
A.405



2 A.302 **WALL SECTION** SCALE: 1/2"= 1'-0"

1 A.302 **WALL SECTION** SCALE: 1/2"= 1'-0"

WHERE ITEMS ARE NOTED AND / OR DIMENSIONED ON ONE SECTION / DETAIL ARE APPLICABLE TO OTHER SECTIONS / DETAILS ON THIS SHEET.

STATE OF MICHIGAN SAMIR M KARIM ARCHITECT No. 1301038452 LICENSED ARCHITECT

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AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

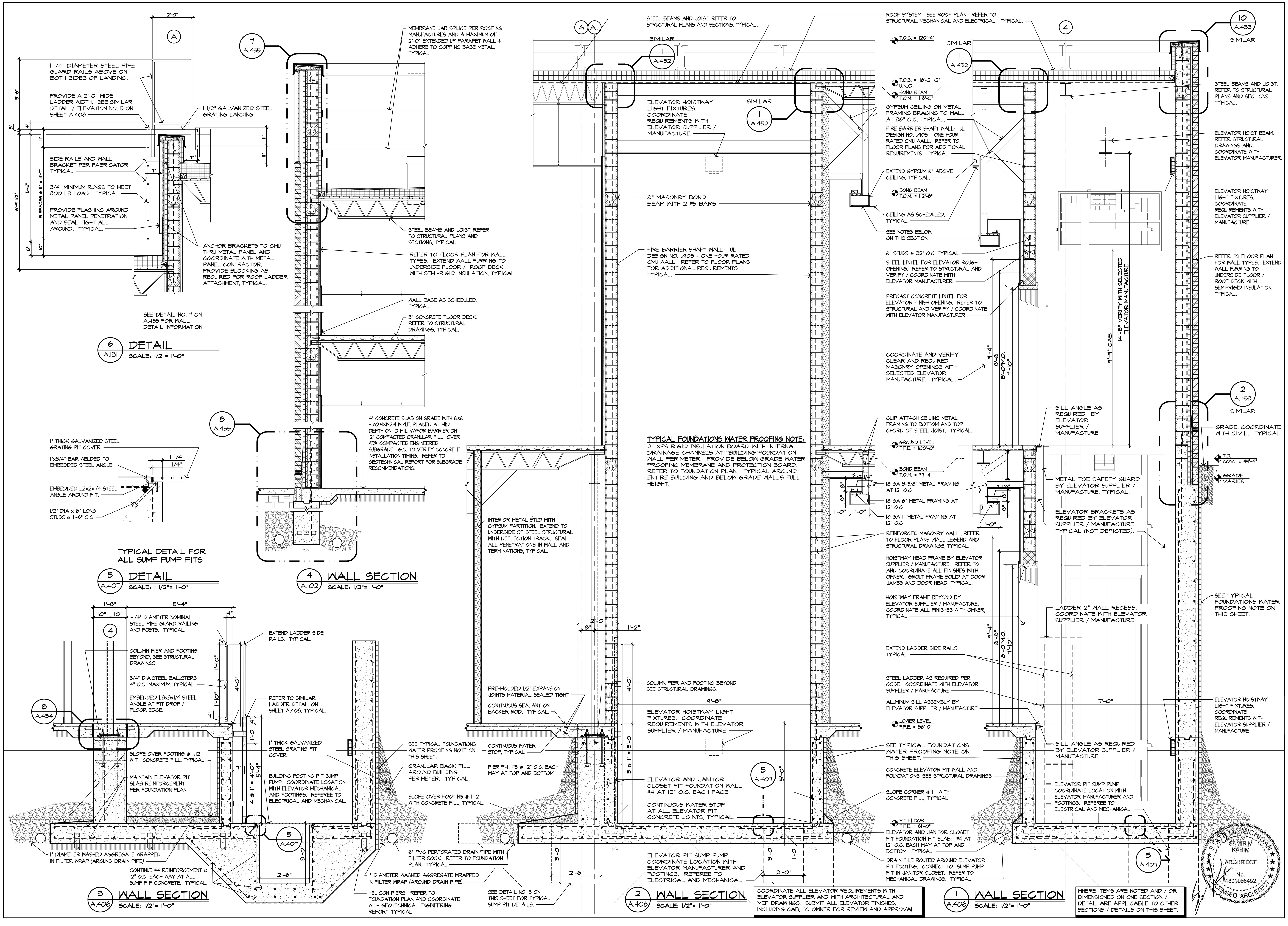
SCALE : 1/2" = 1'-0"

FILE NAME : 19059_A406

JOB #: 19059

SHEET TITLE
WALL SECTIONS

SHEET #
A.406



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DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

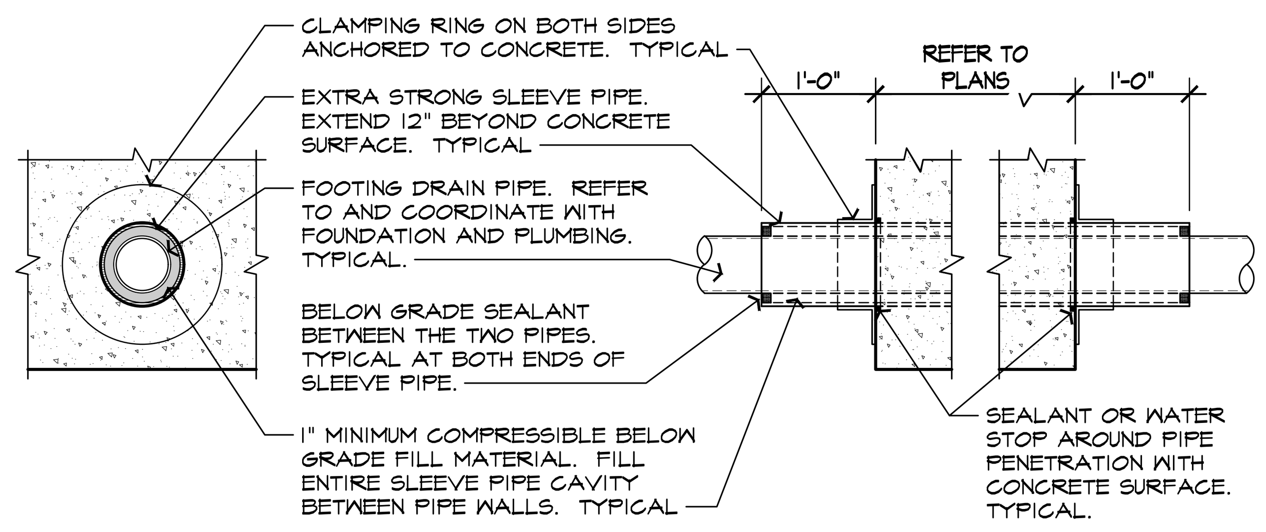
SCALE : 1/2" = 1'-0"

FILE NAME : 19059_A407

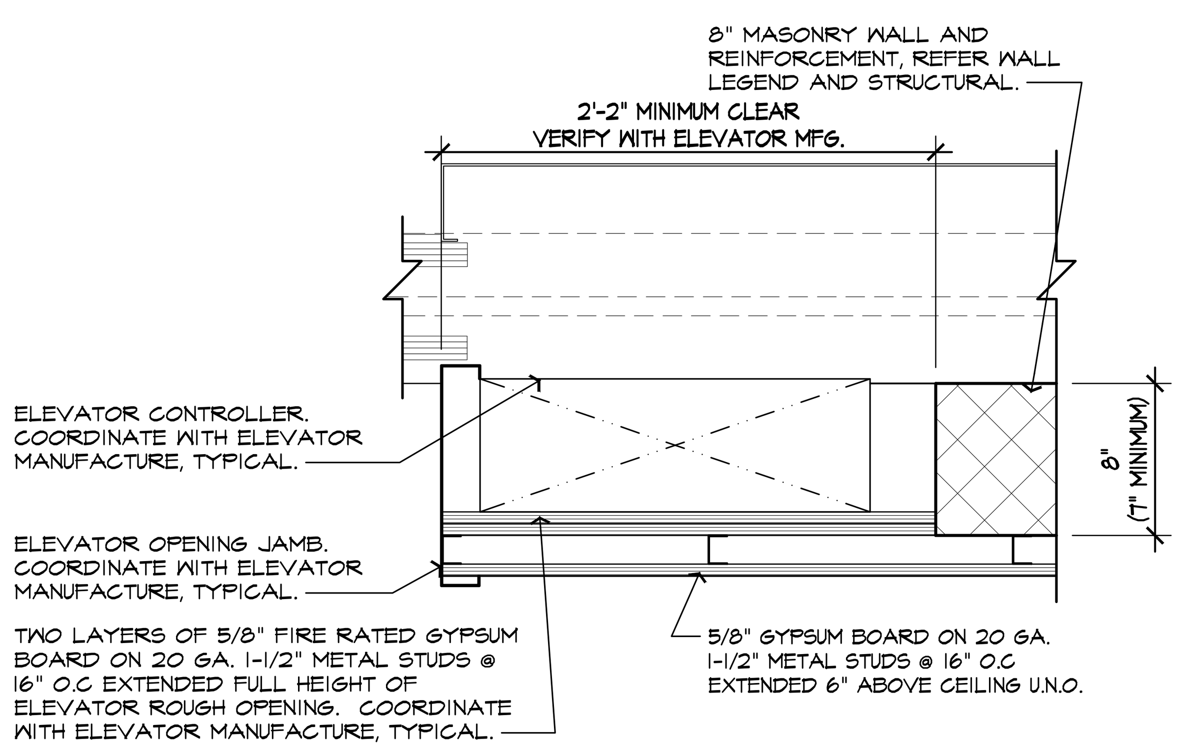
JOB #: 19059

SHEET TITLE
WALL SECTIONS

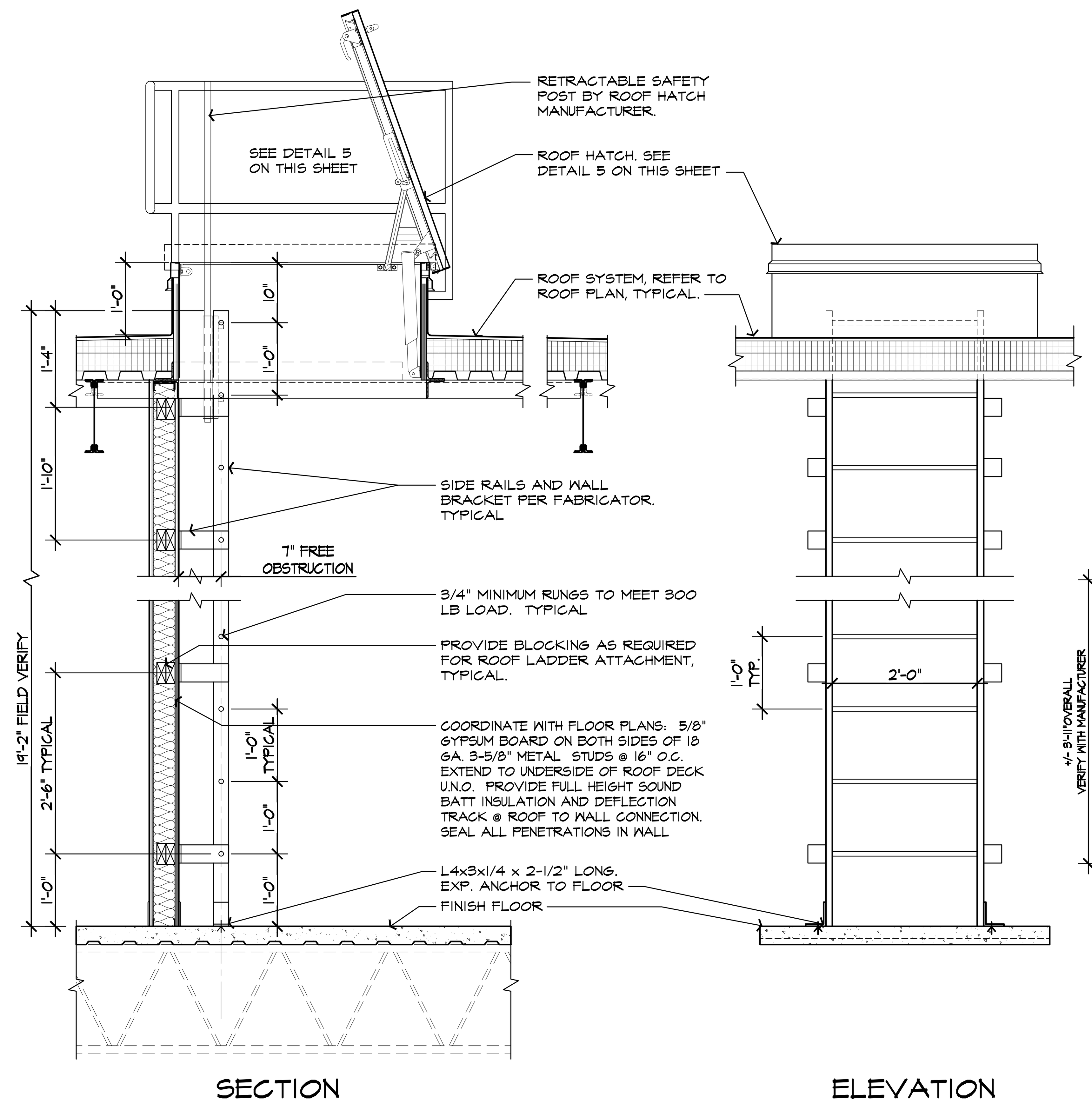
SHEET #
A.407



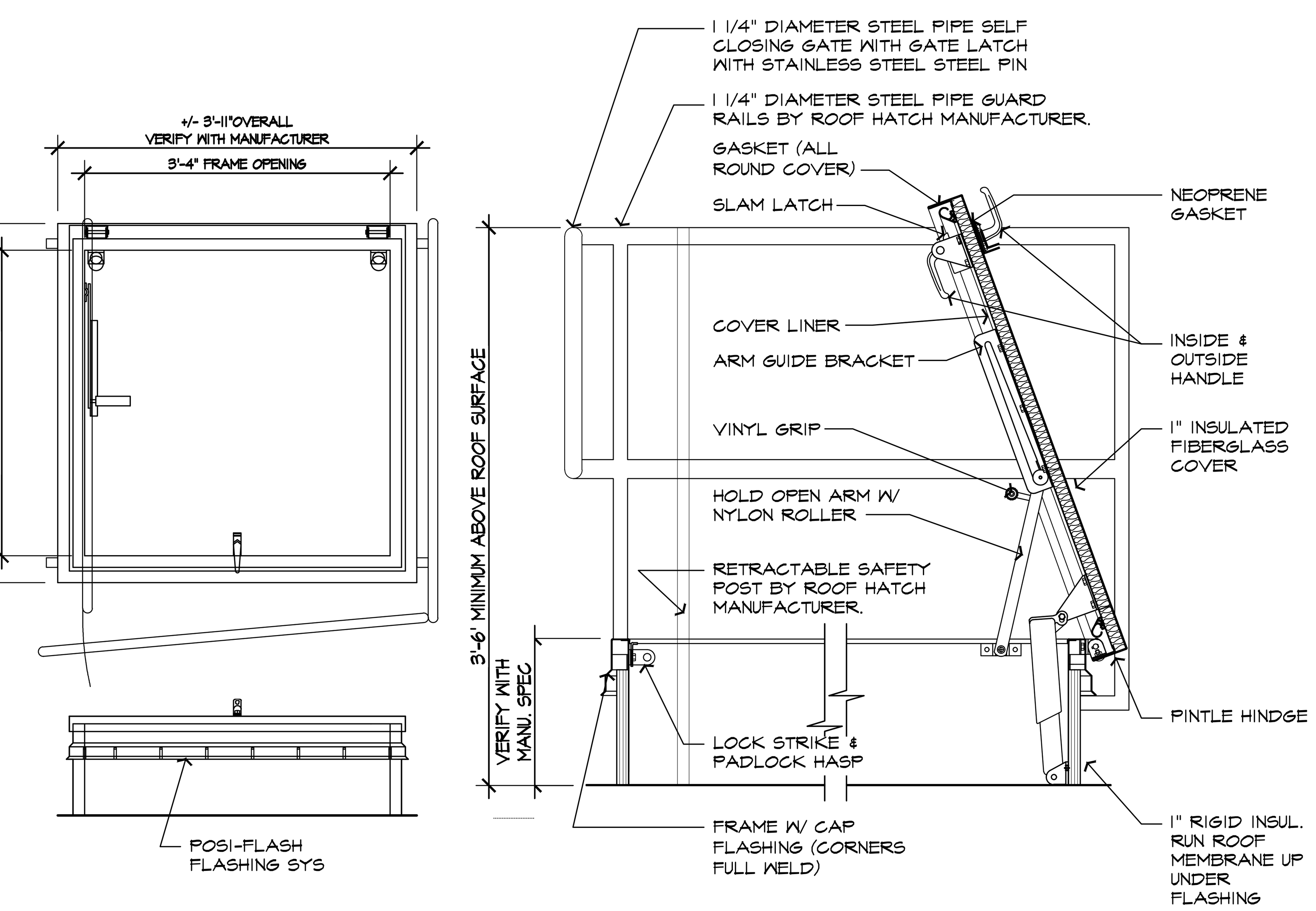
8 A.102 **TYPICAL FOOTINGS DRAIN PIPE PENETRATION DETAIL**
SCALE: 1 1/2"= 1'-0"



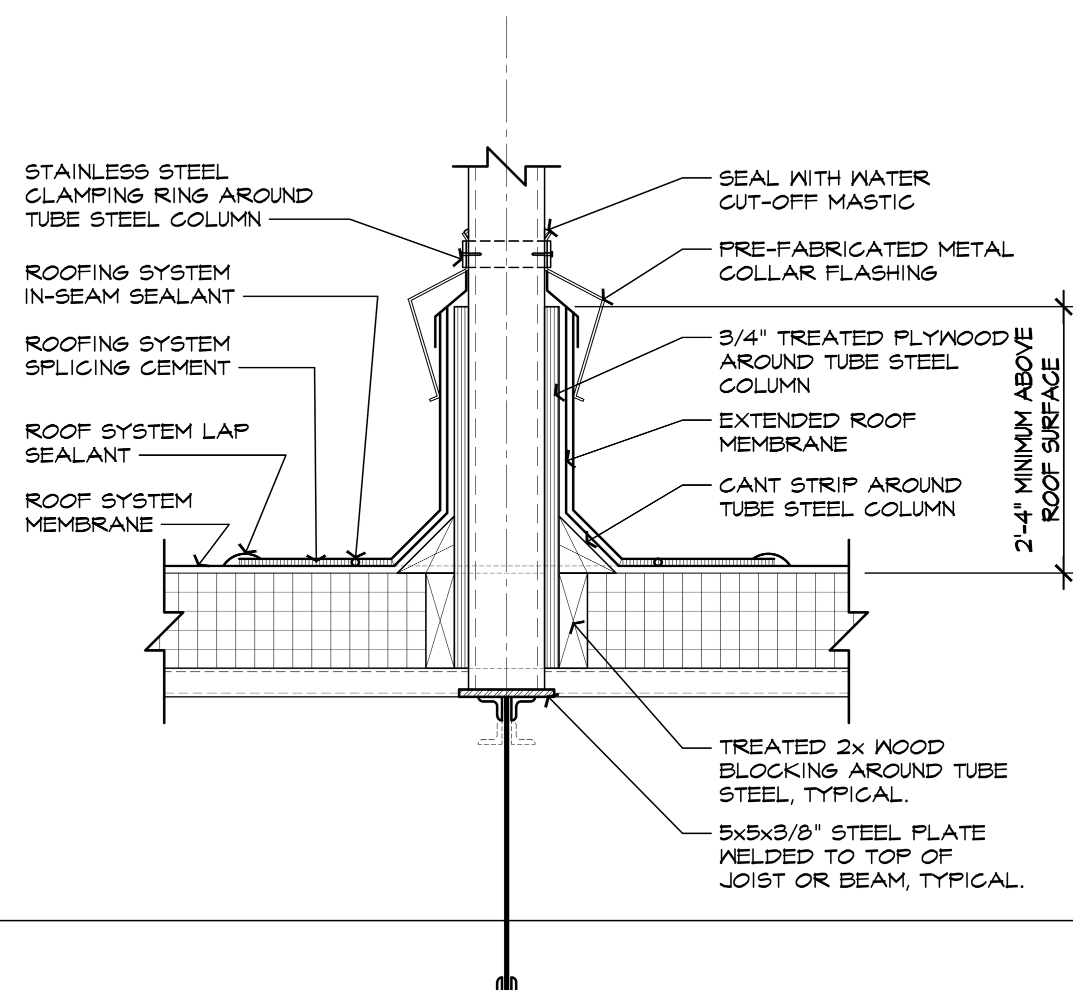
7 A.102 **DETAIL**
SCALE: 1 1/2"= 1'-0"



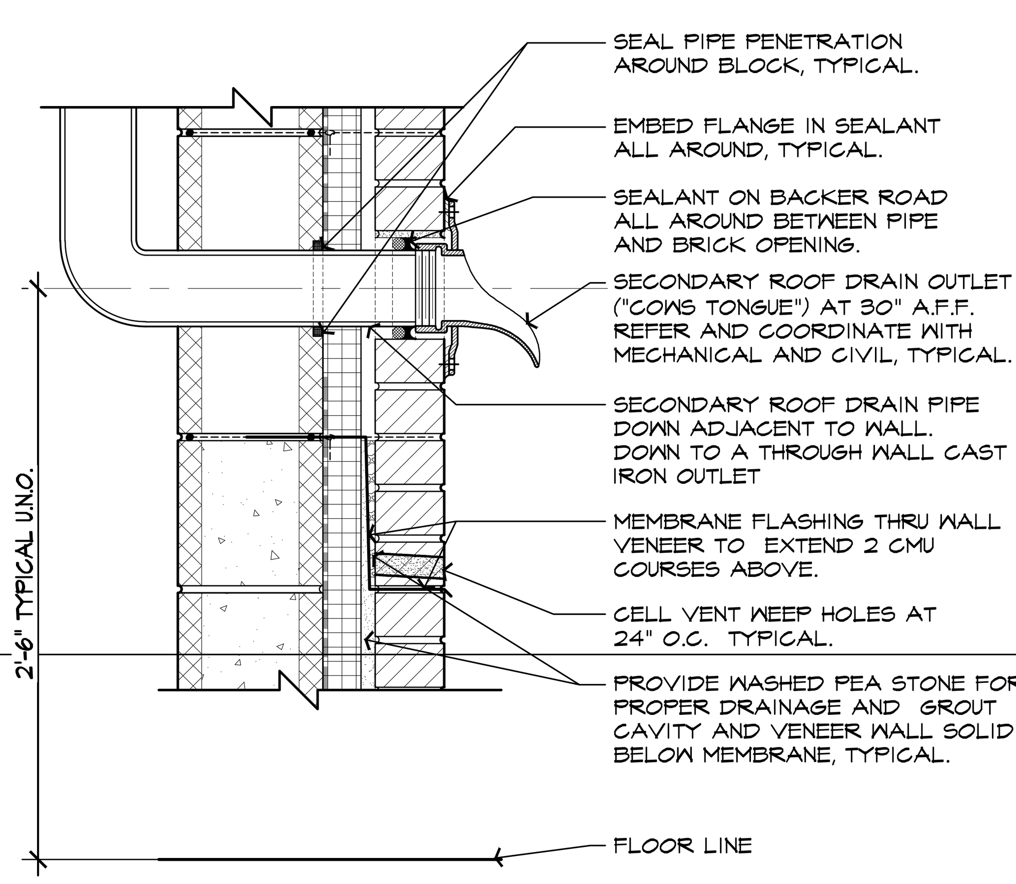
6 A.131 **SECTION**
SCALE: 3/4"= 1'-0"



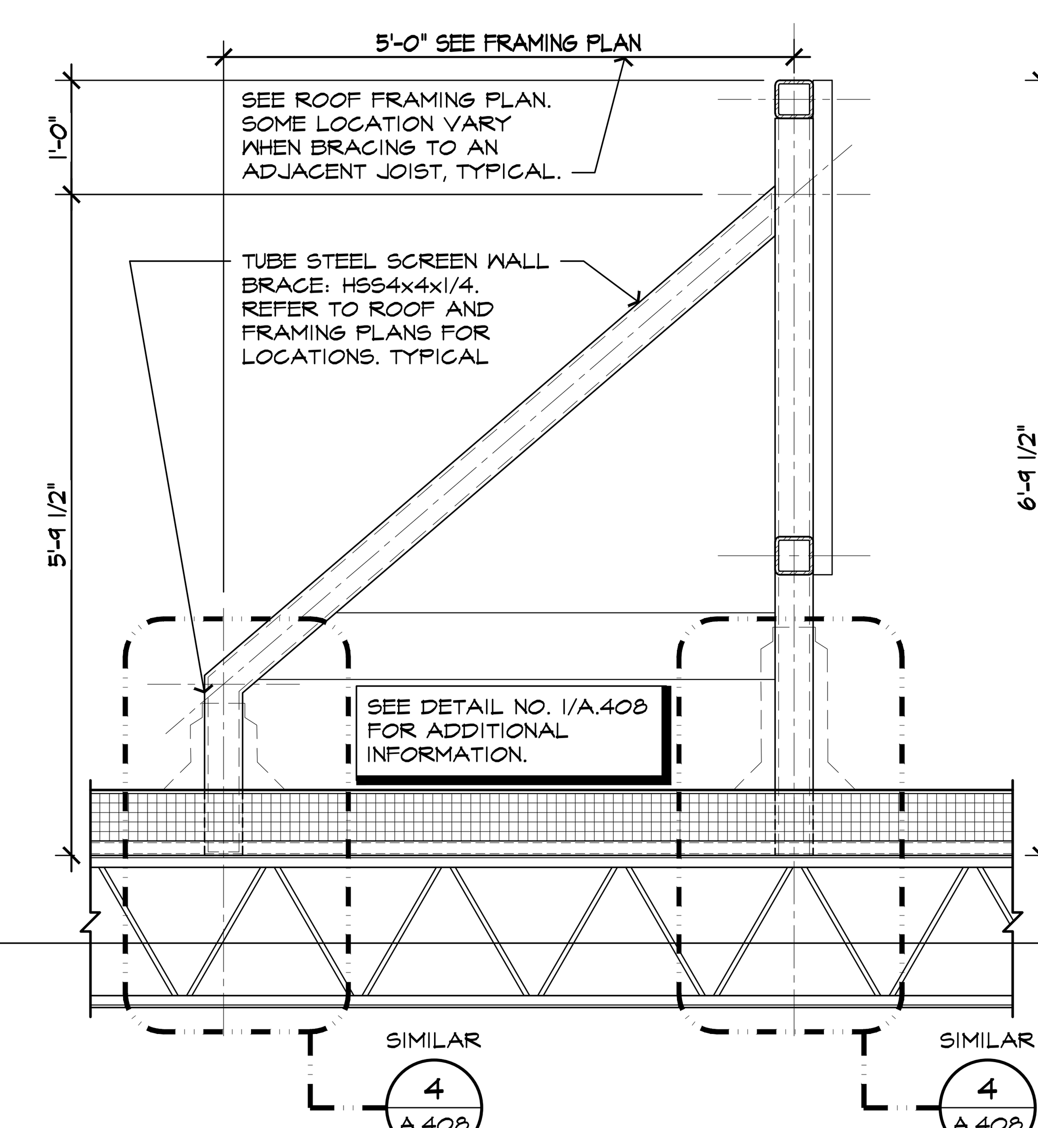
5 A.131 **BILCO TYPE-S ROOF SCUTTLE (OR APPROVED EQUAL BY OWNER)**
SCALE: 3/4"= 1'-0"
Sheet2



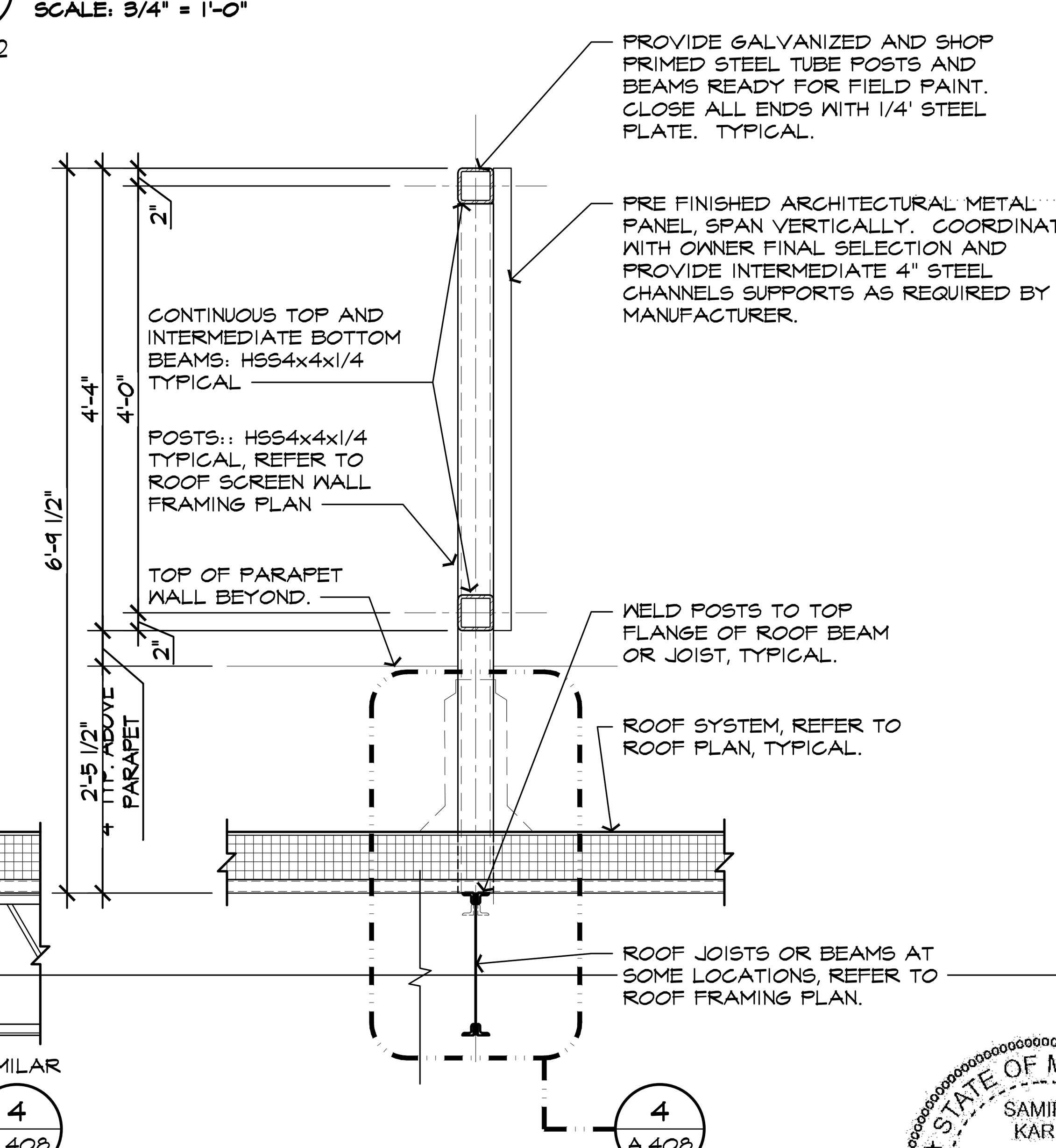
4 A.408 **SECTION**
SCALE: 1 1/2"= 1'-0"



3 A.201 **SECTION**
SCALE: 1 1/2"= 1'-0"



2 A.131 **SECTION**
SCALE: 3/4"= 1'-0"
S.204



1 A.131 **SECTION**
SCALE: 3/4"= 1'-0"
S.204

WHERE ITEMS ARE NOTED AND / OR DIMENSIONED ON ONE SECTION / DETAIL ARE APPLICABLE TO OTHER SECTIONS / DETAILS ON THIS SHEET.

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

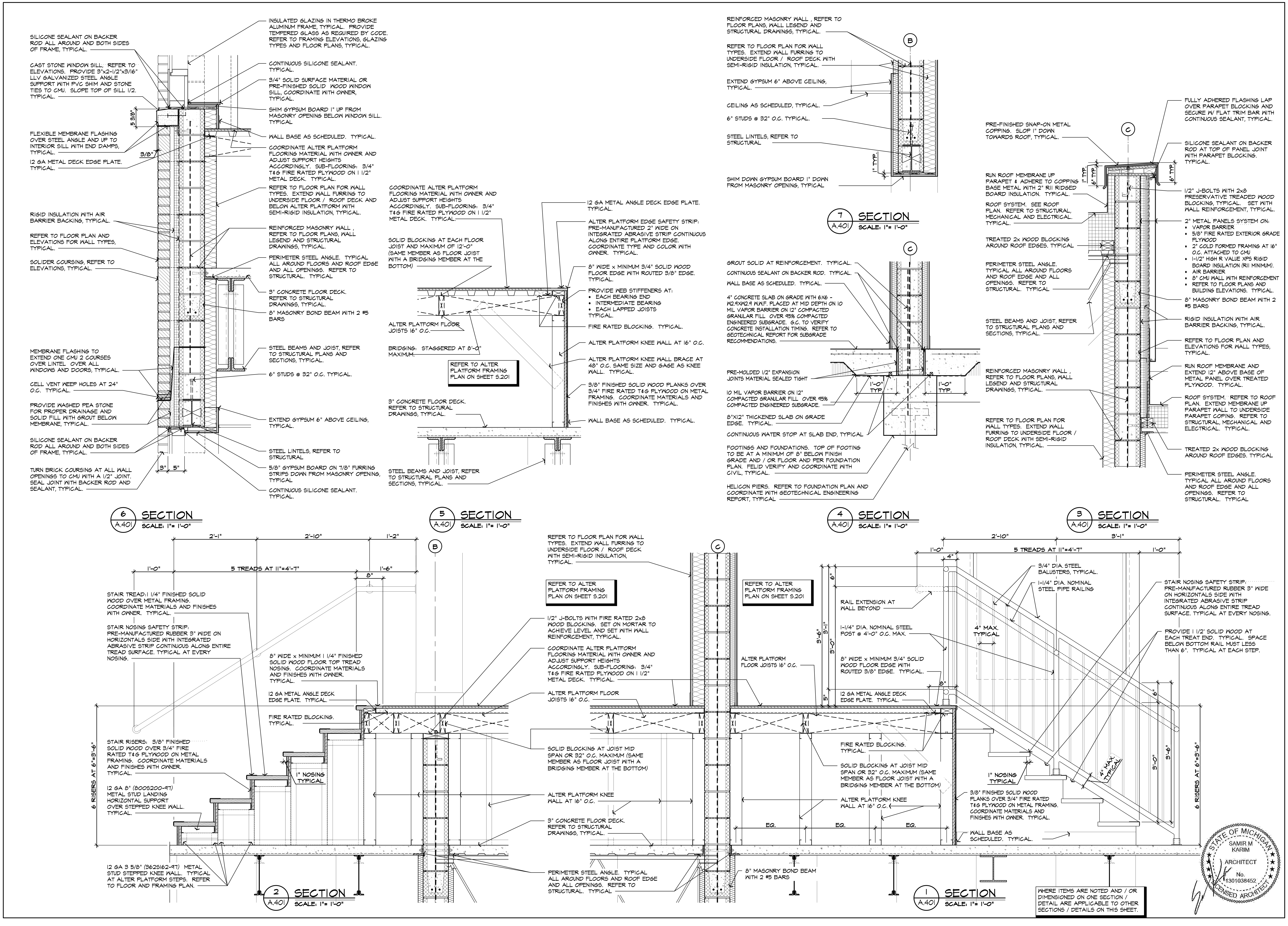
ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN
RESIDENTIAL
COMMERCIAL
INDUSTRIAL
G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM
GAV ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : 1/2" = 1'-0"
FILE NAME : 19059_A408
JOB #: 19059
SHEET TITLE
WALL SECTIONS
SHEET #
A.408



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INDUSTRIAL

G.A.V. ASSOCIATES, INC
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ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

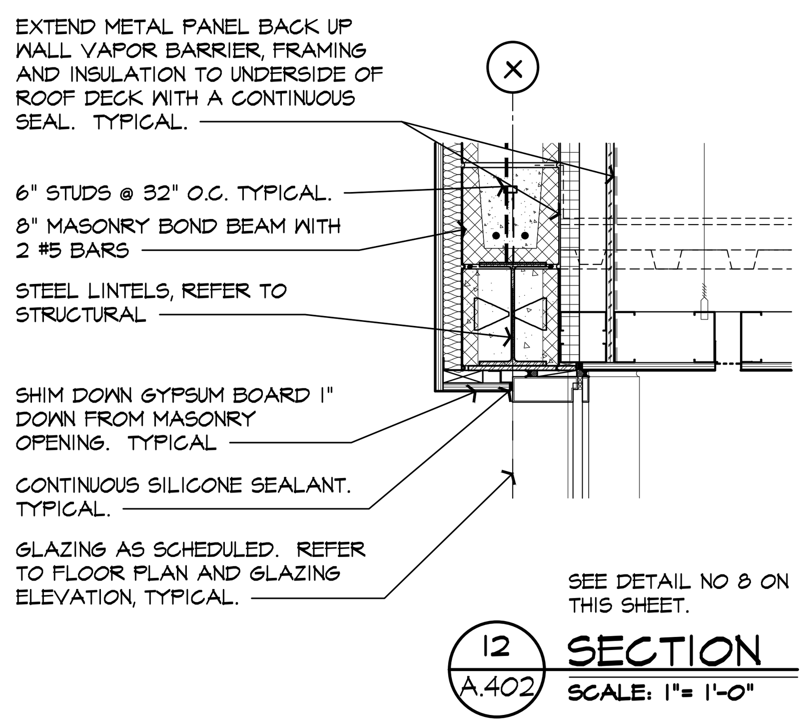
SCALE : 1" = 1'-0"

FILE NAME : 19059_A451

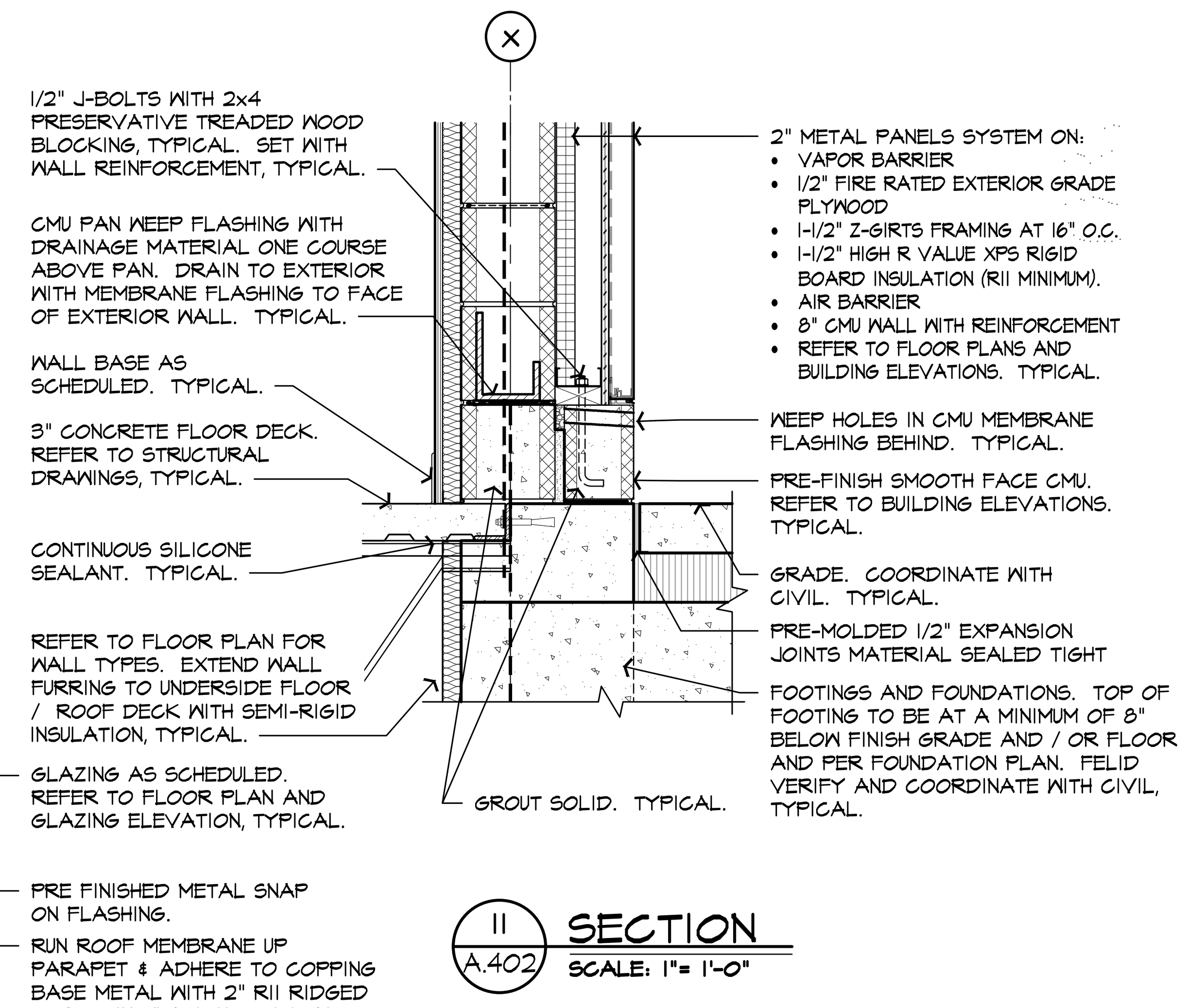
JOB #: 19059

SHEET TITLE
SECTIONS AND DETAILS

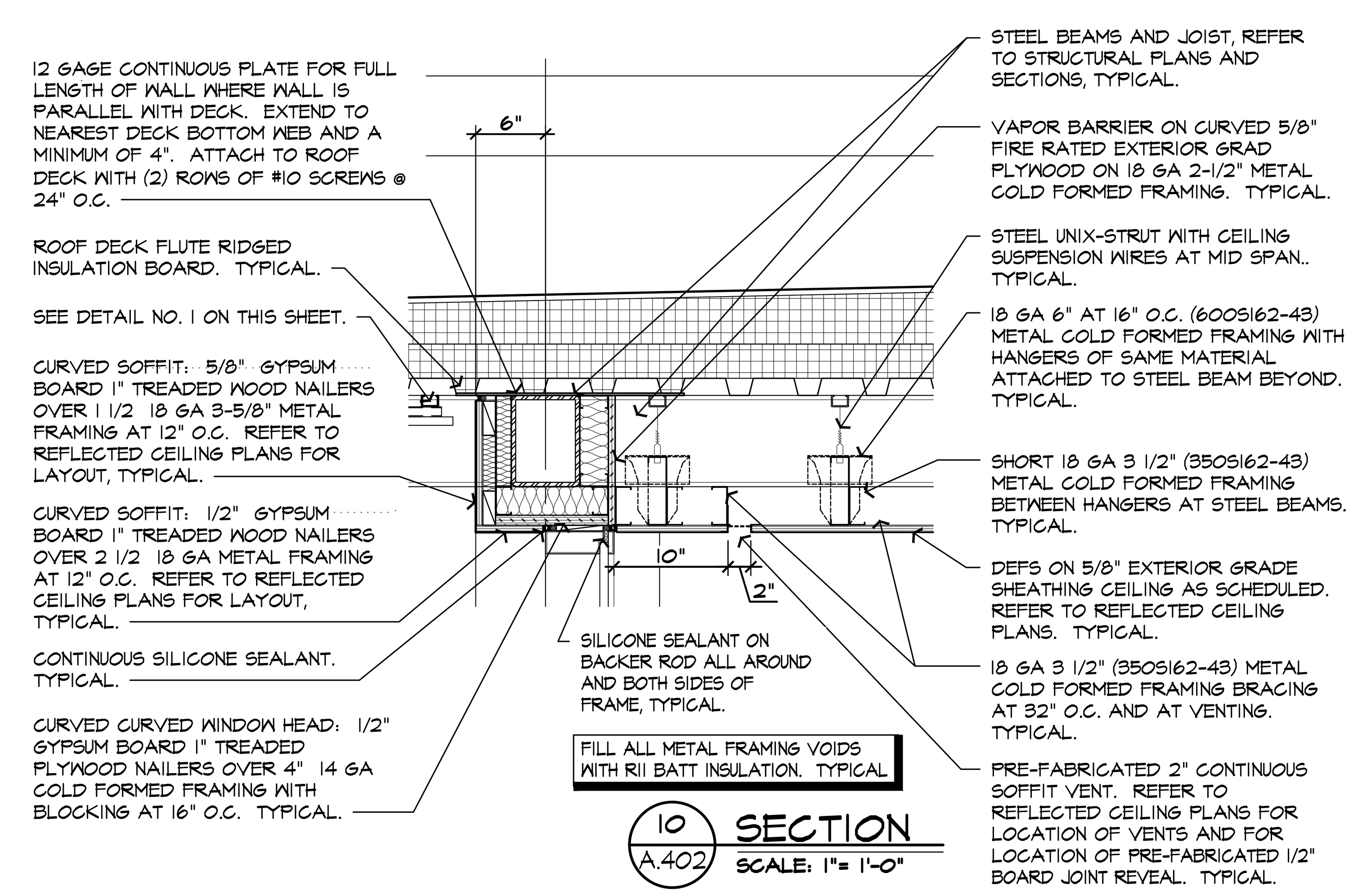
SHEET #
A.451



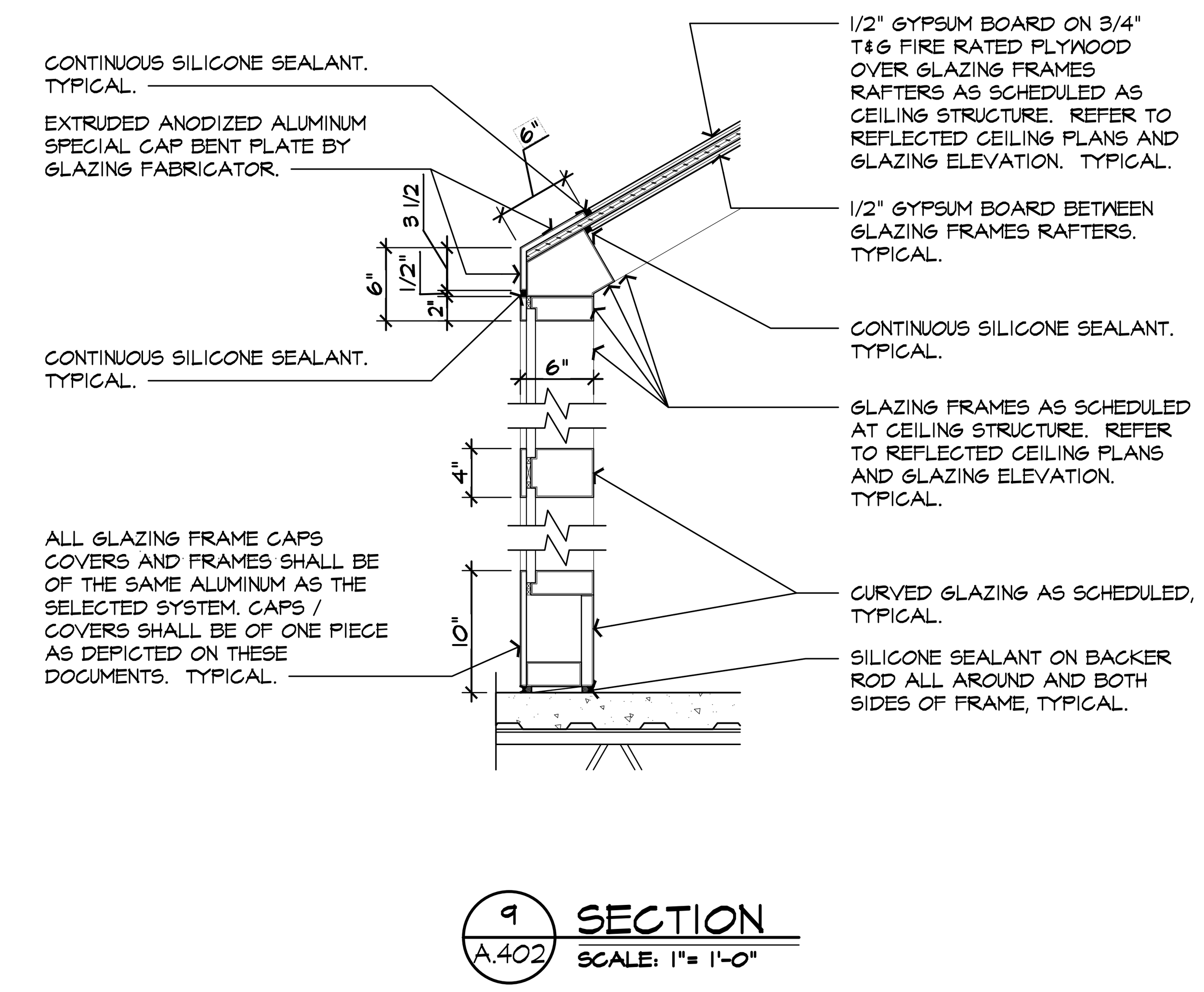
12 / A.402 SECTION
SCALE: 1"= 1'-0"



11 / A.402 SECTION
SCALE: 1"= 1'-0"



10 / A.402 SECTION
SCALE: 1"= 1'-0"



9 / A.402 SECTION
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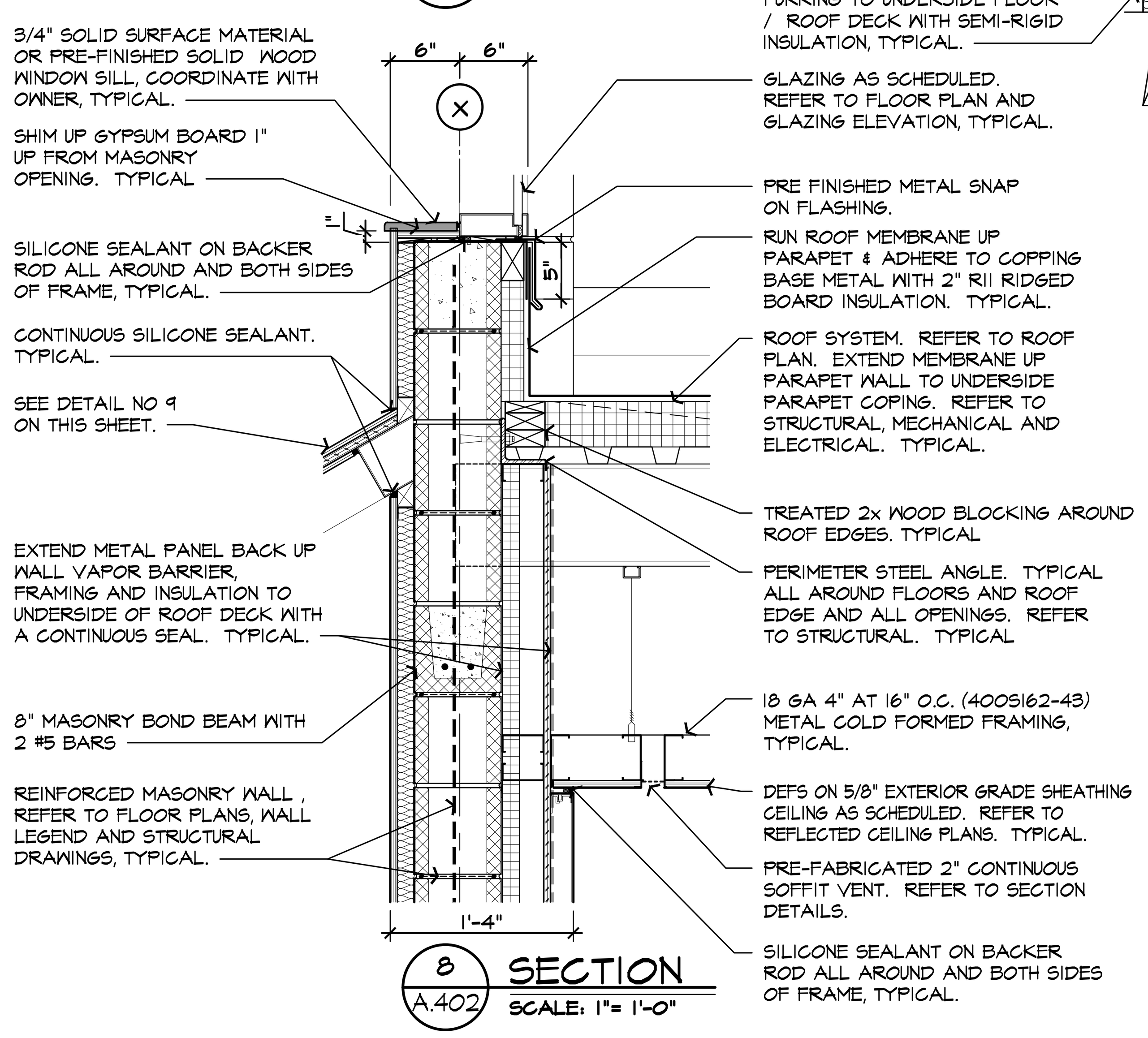
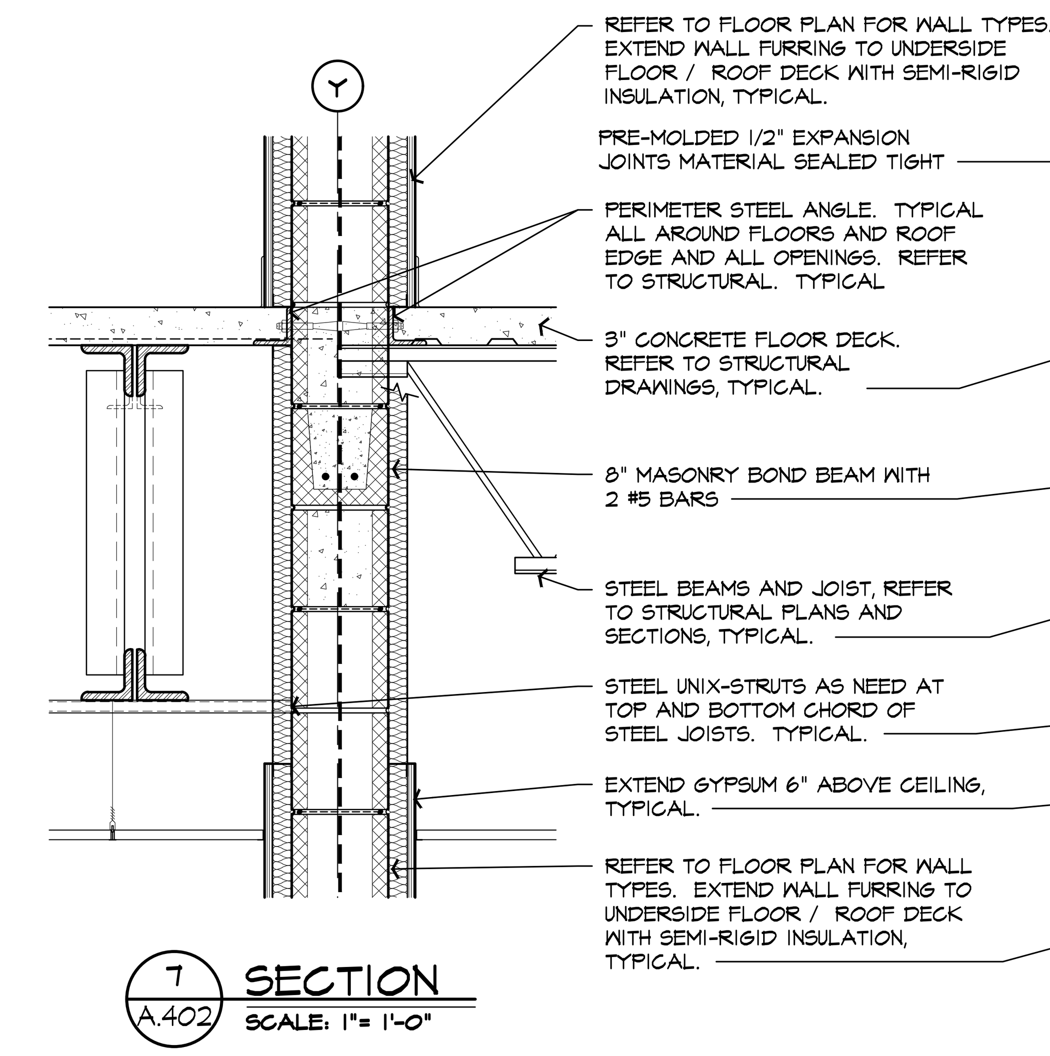
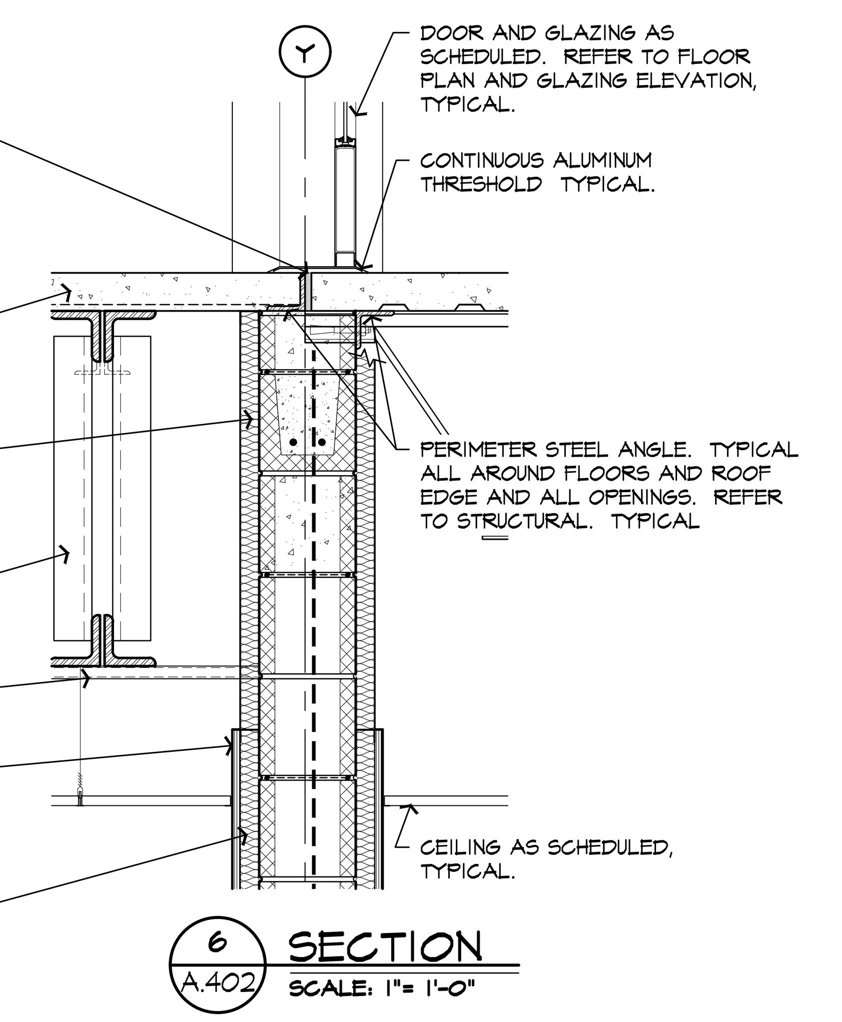


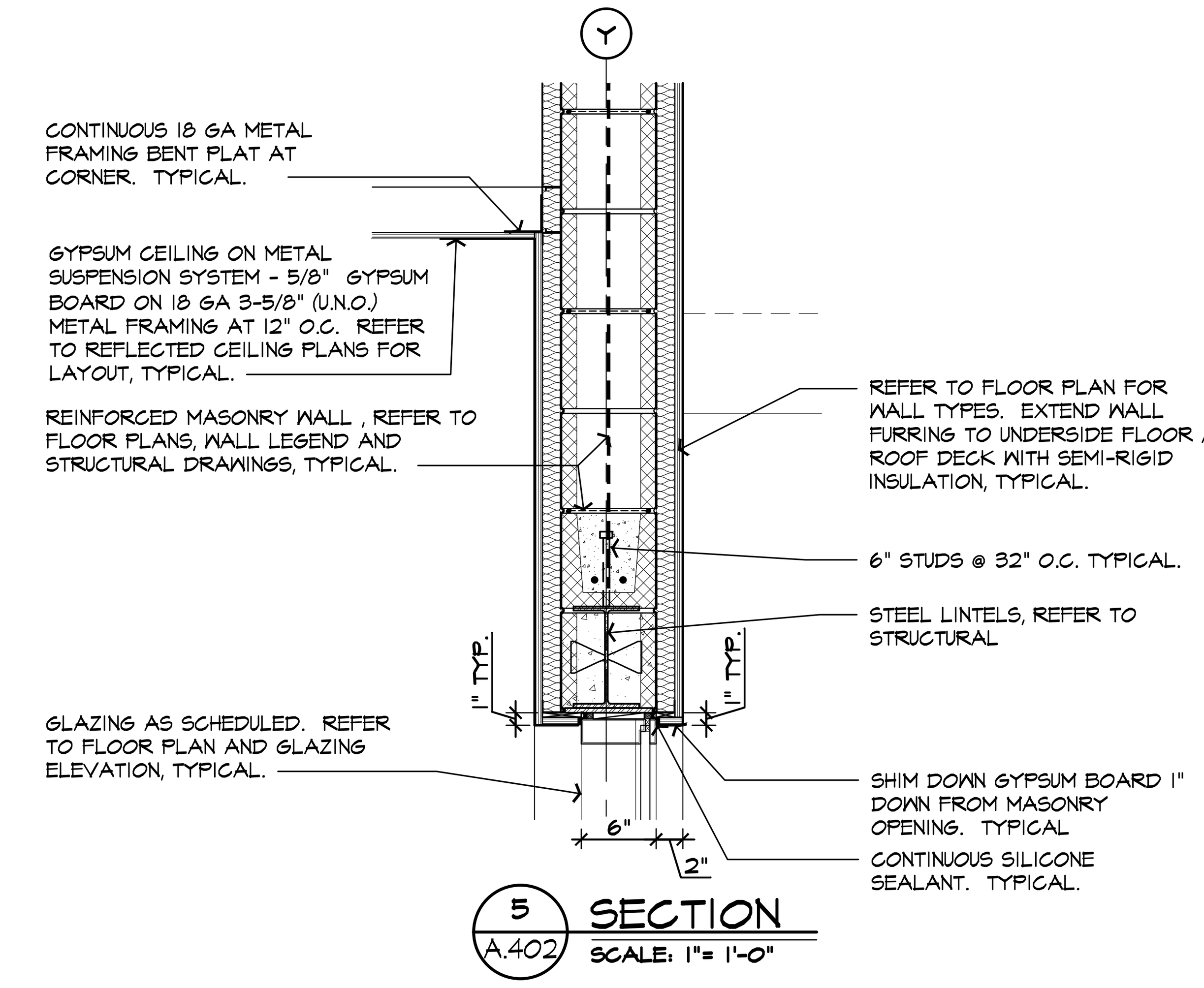
8 / A.402 SECTION
SCALE: 1"= 1'-0"



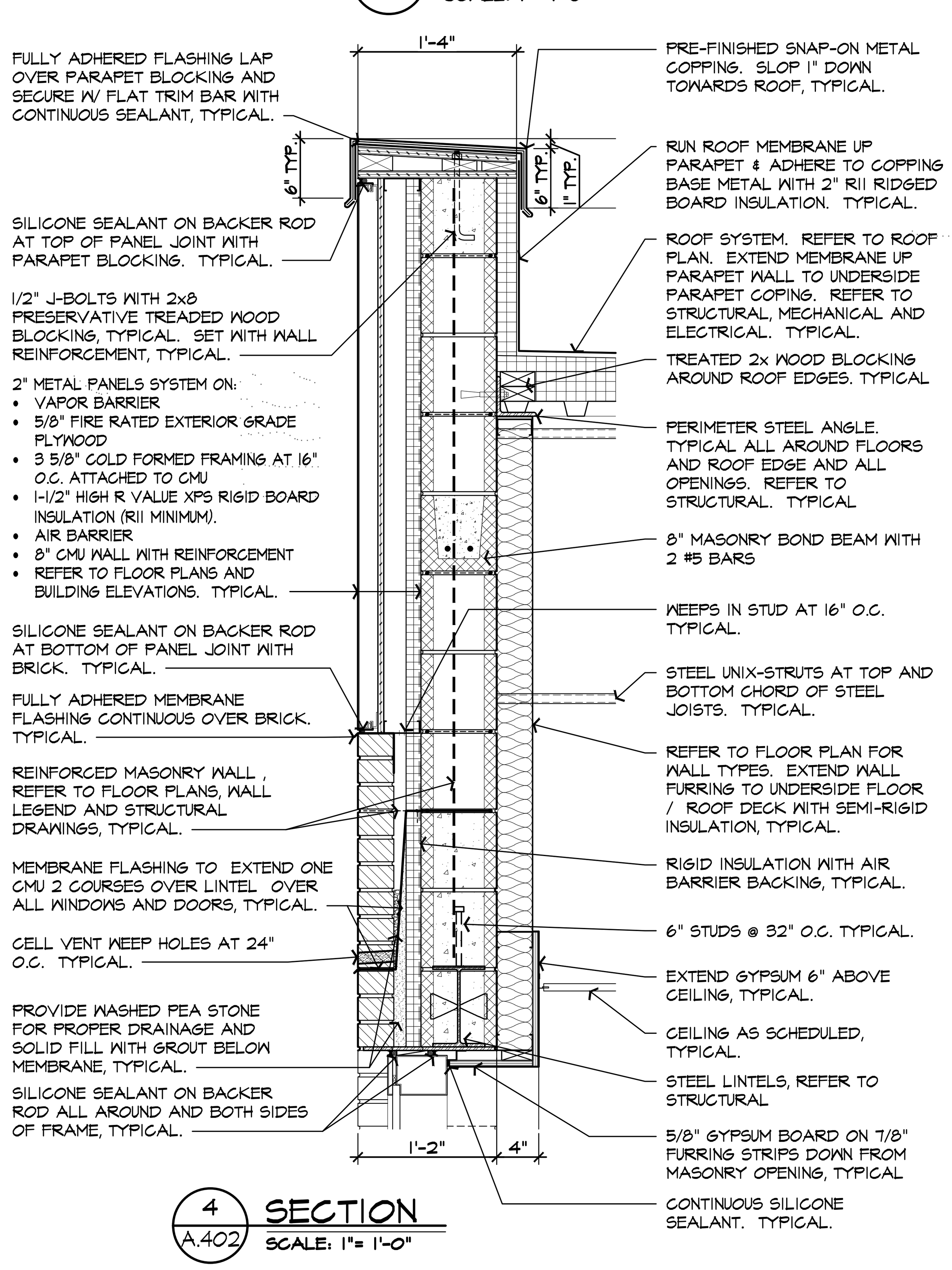
7 / A.402 SECTION
SCALE: 1"= 1'-0"



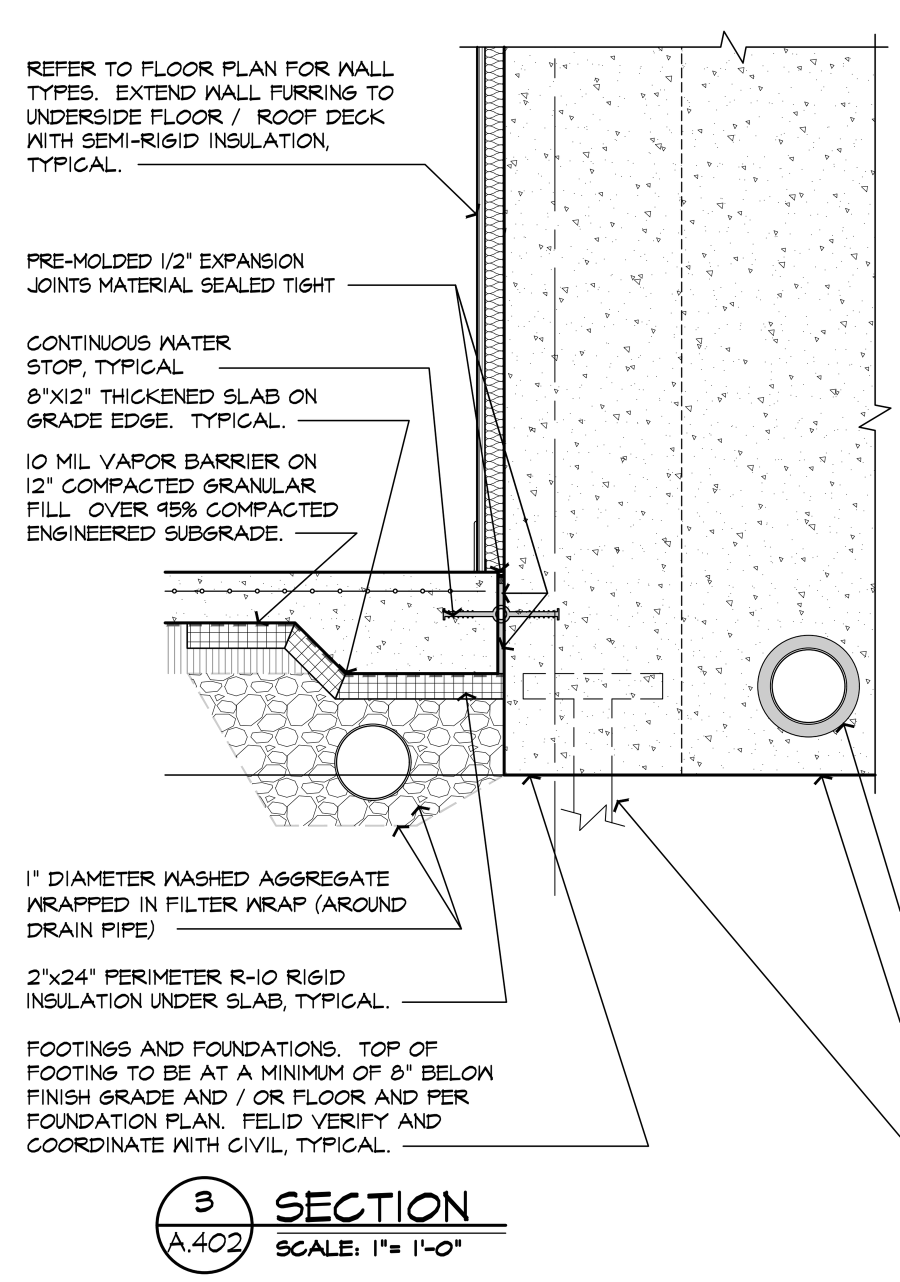
6 / A.402 SECTION
SCALE: 1"= 1'-0"



5 / A.402 SECTION
SCALE: 1"= 1'-0"



4 / A.402 SECTION
SCALE: 1"= 1'-0"



3 / A.402 SECTION
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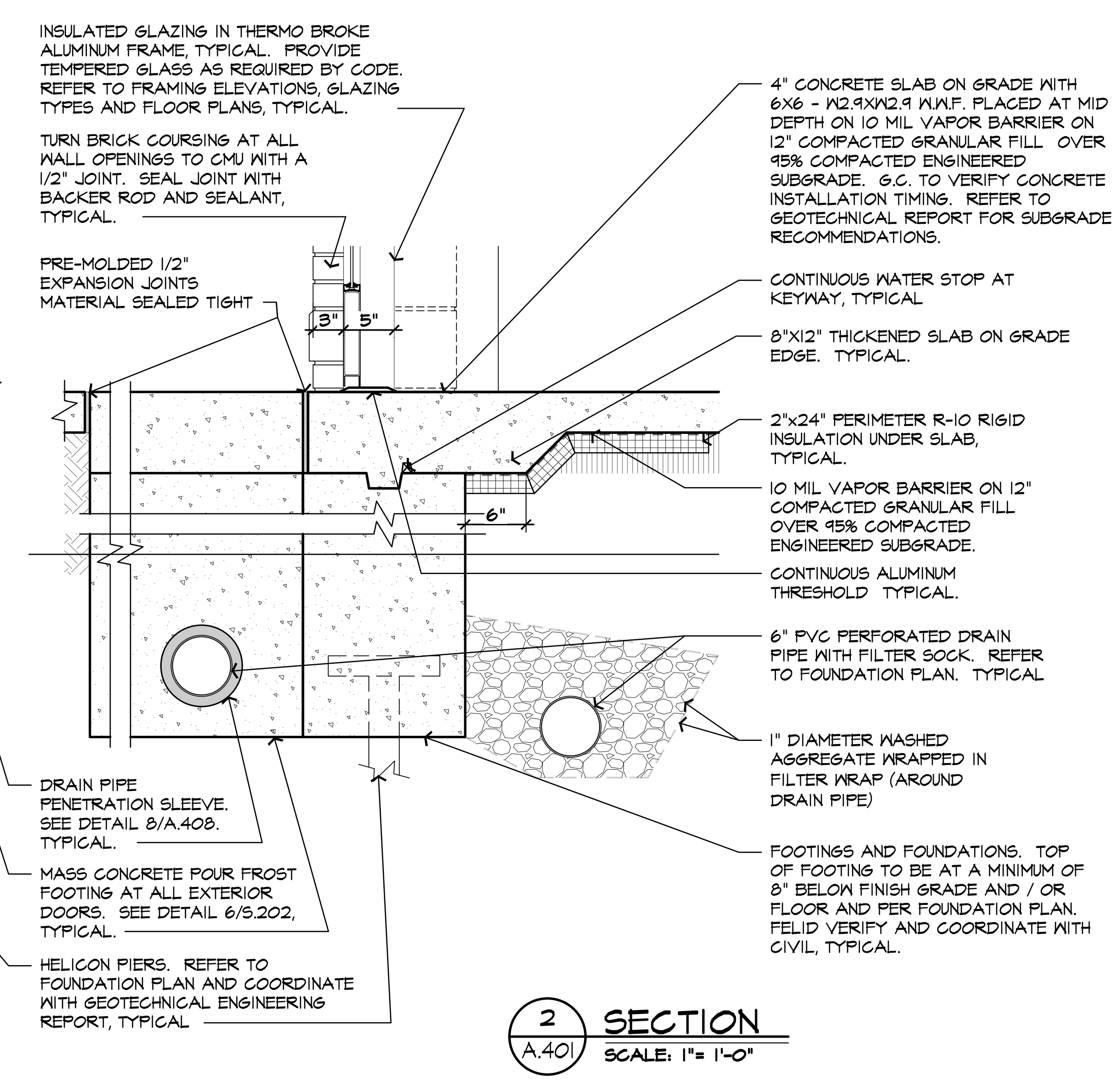
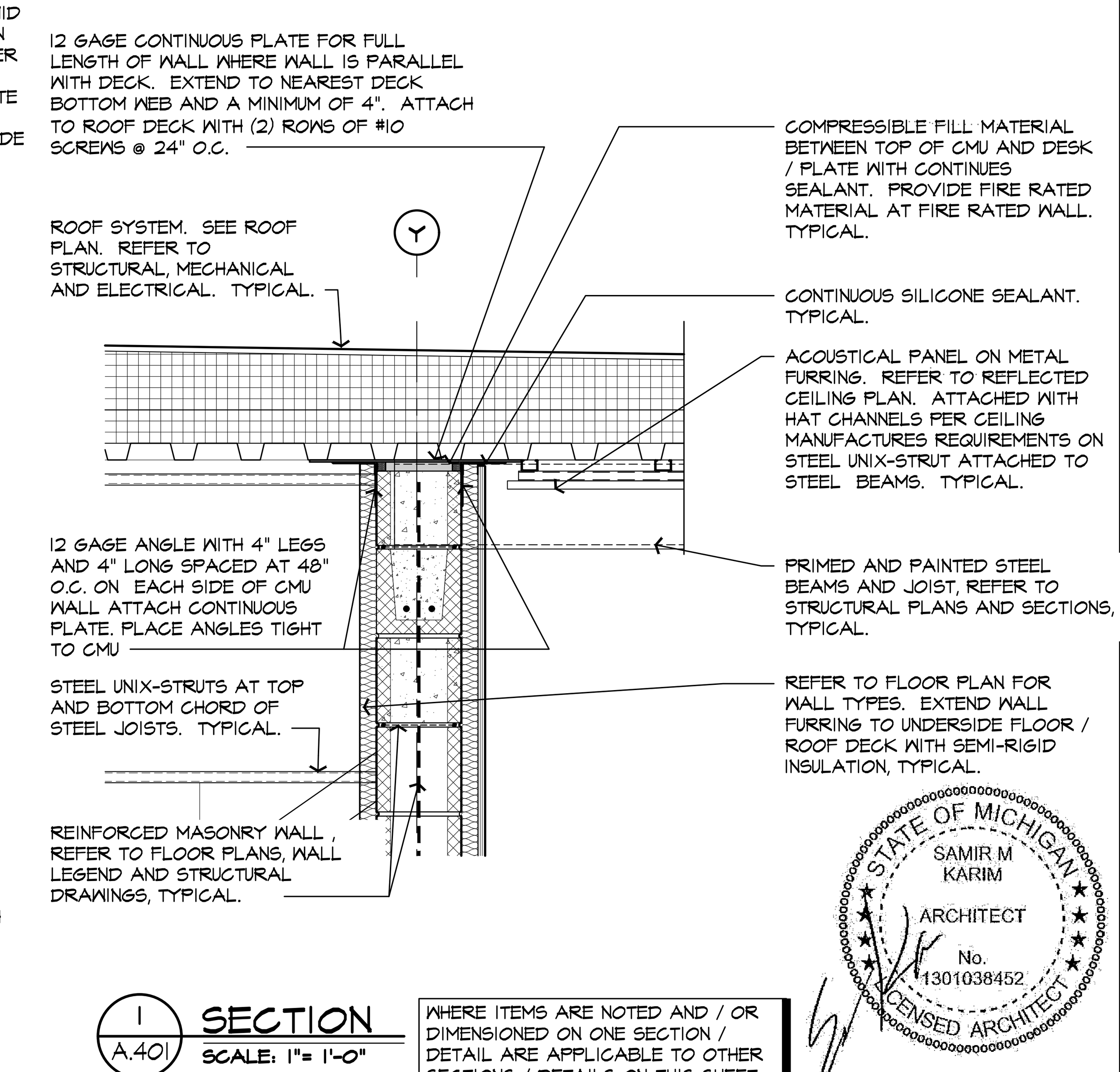


2 / A.401 SECTION
SCALE: 1"= 1'-0"



1 / A.401 SECTION
SCALE: 1"= 1'-0"

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STATE OF MICHIGAN
SAMIR M KARIM
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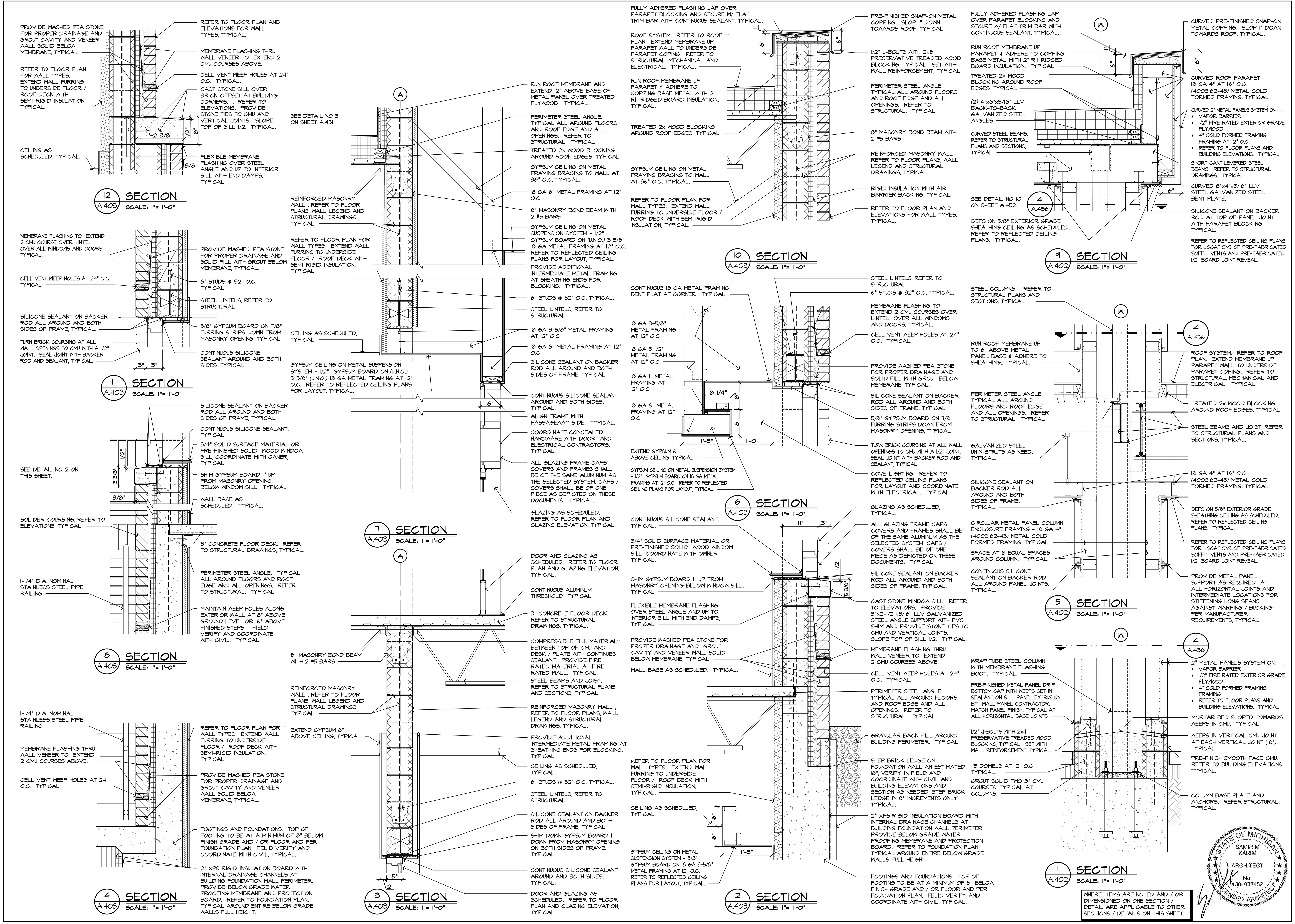
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : 1" = 1'-0"
FILE NAME : 19059_A452
JOB #: 19059
SHEET TITLE
SECTIONS AND DETAILS
SHEET #
A.452



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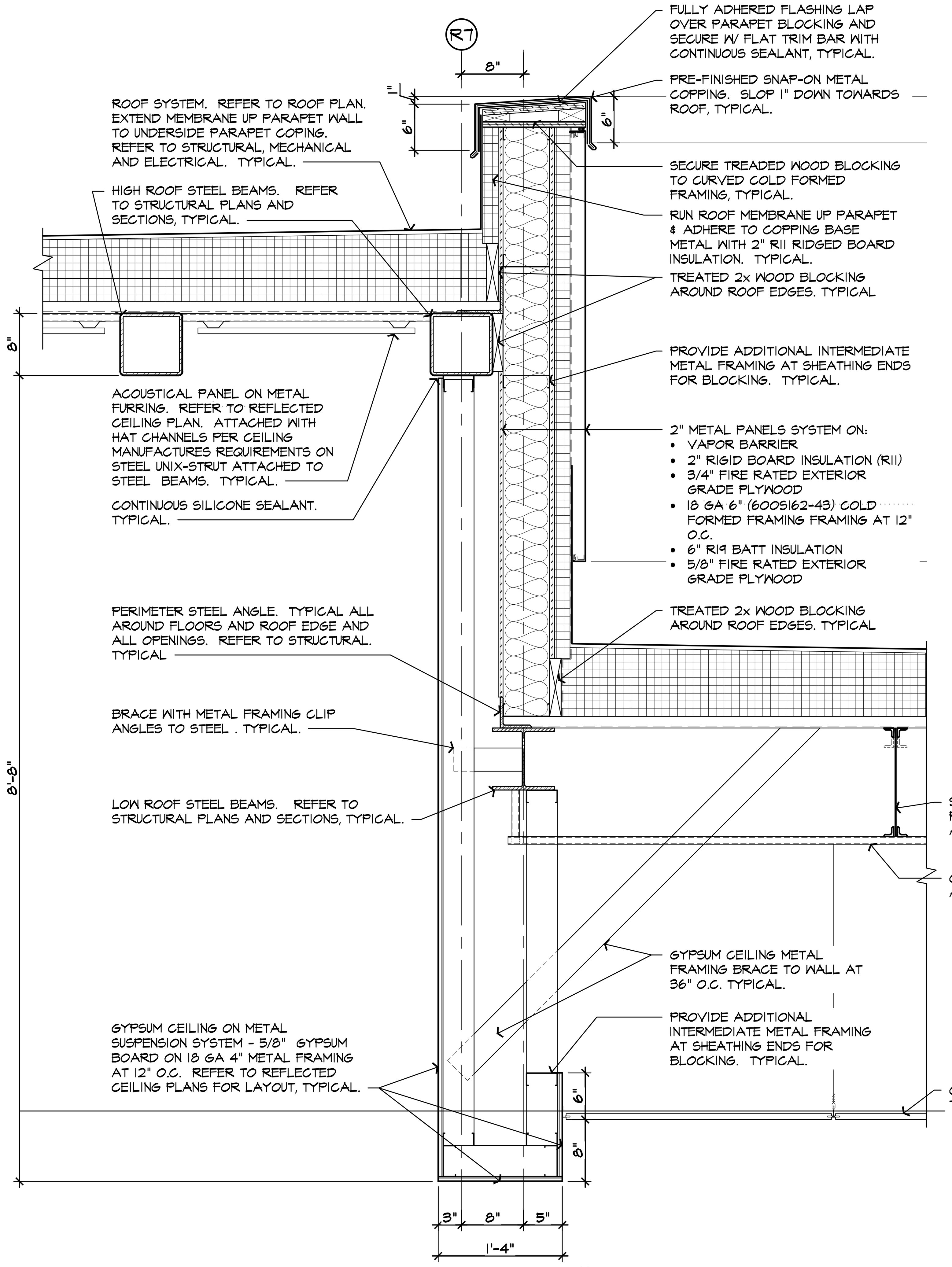
SCALE : 1" = 1'-0"

FILE NAME : 19059_A453

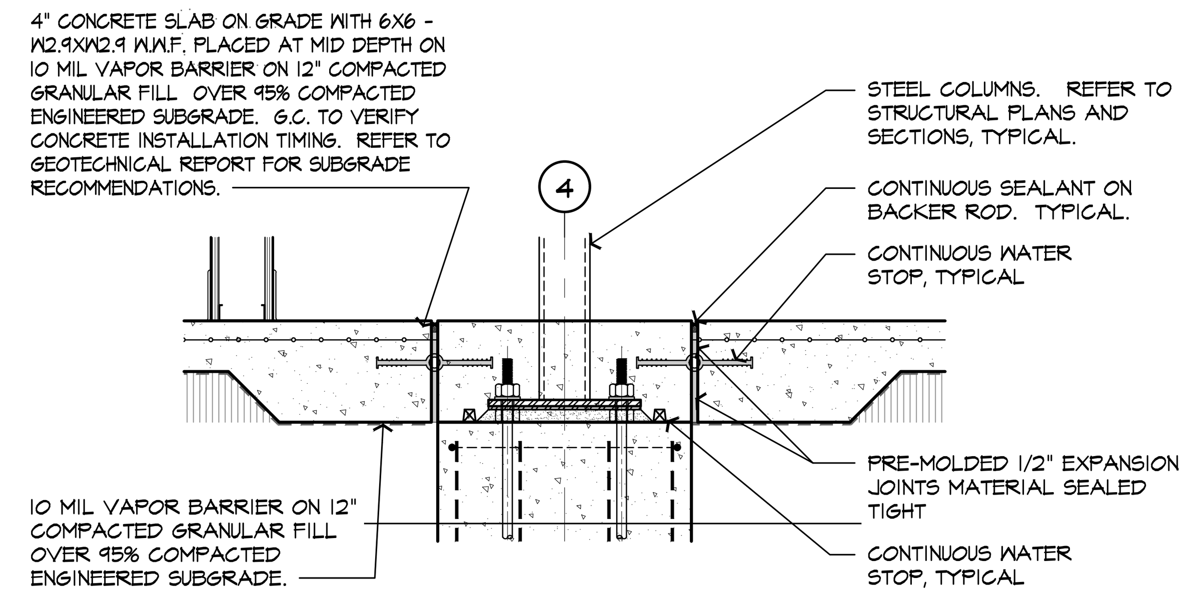
JOB #: 19059

SHEET TITLE
SECTIONS AND DETAILS

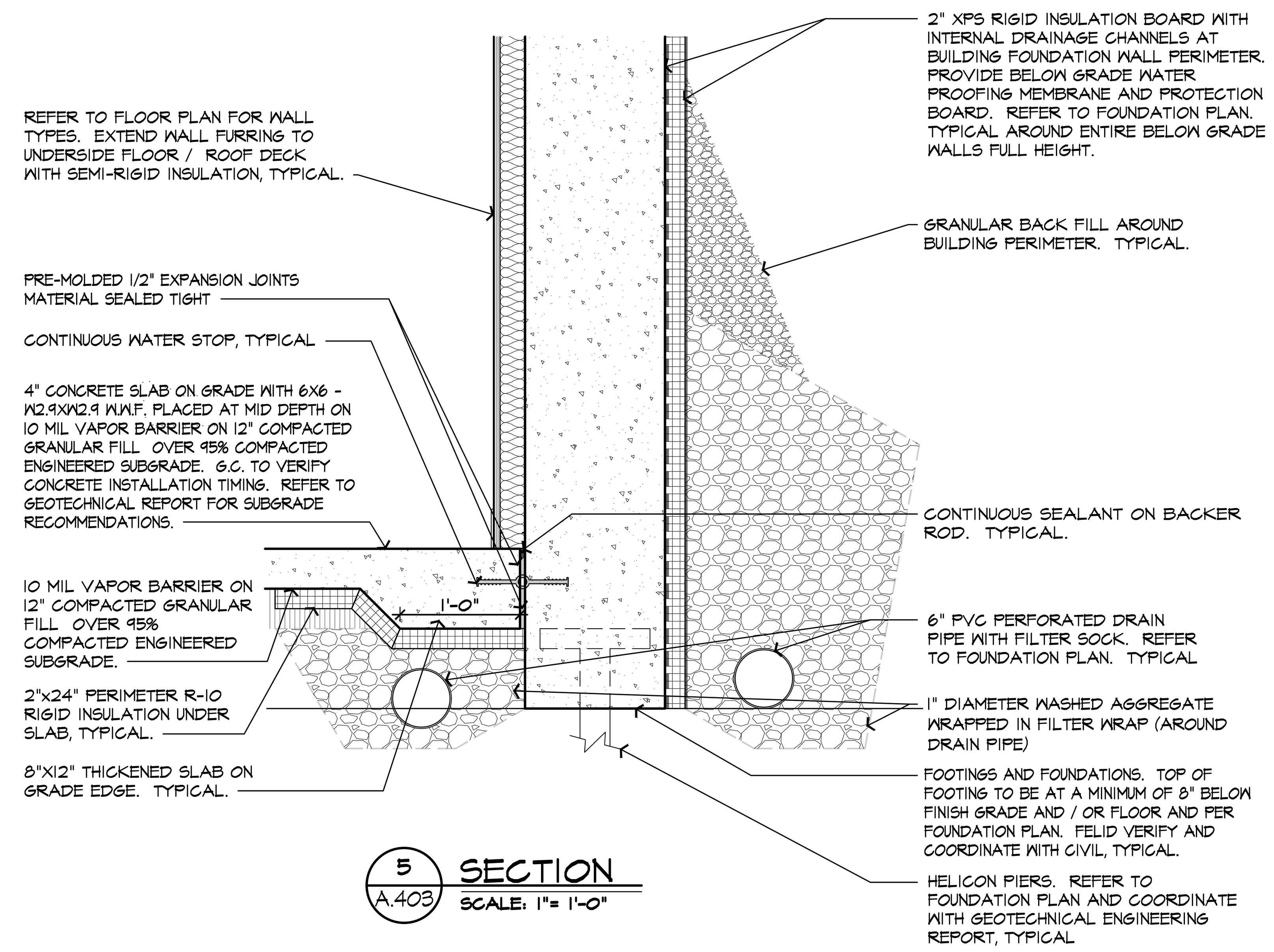
SHEET #
A.453



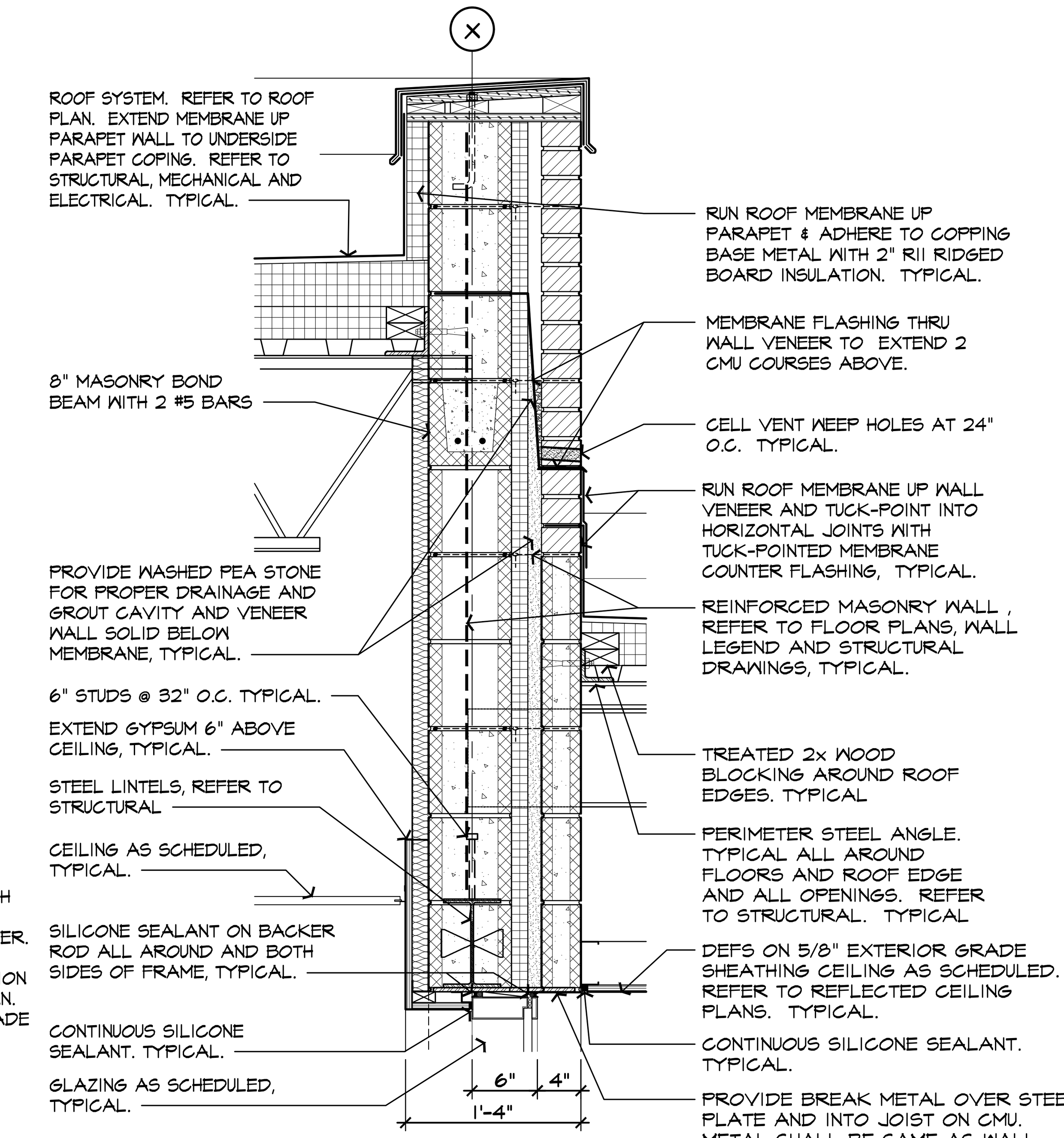
6 A.403 **SECTION**
SCALE: 1"= 1'-0"



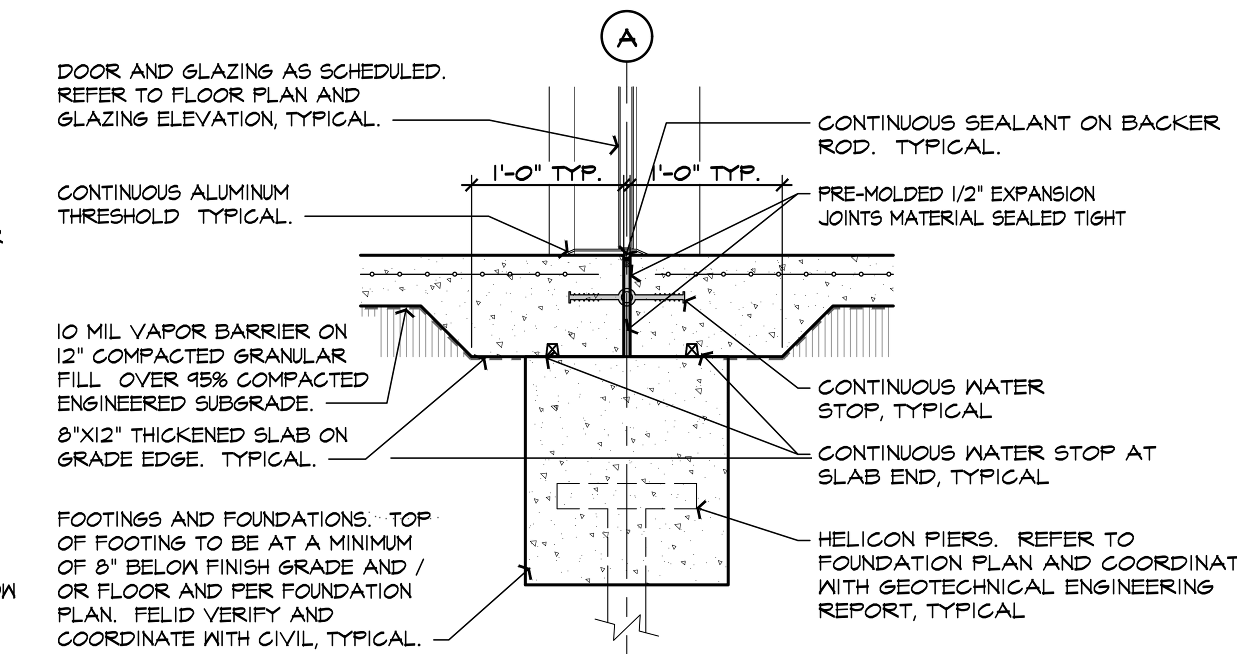
8 A.407 **SECTION**
SCALE: 1"= 1'-0"



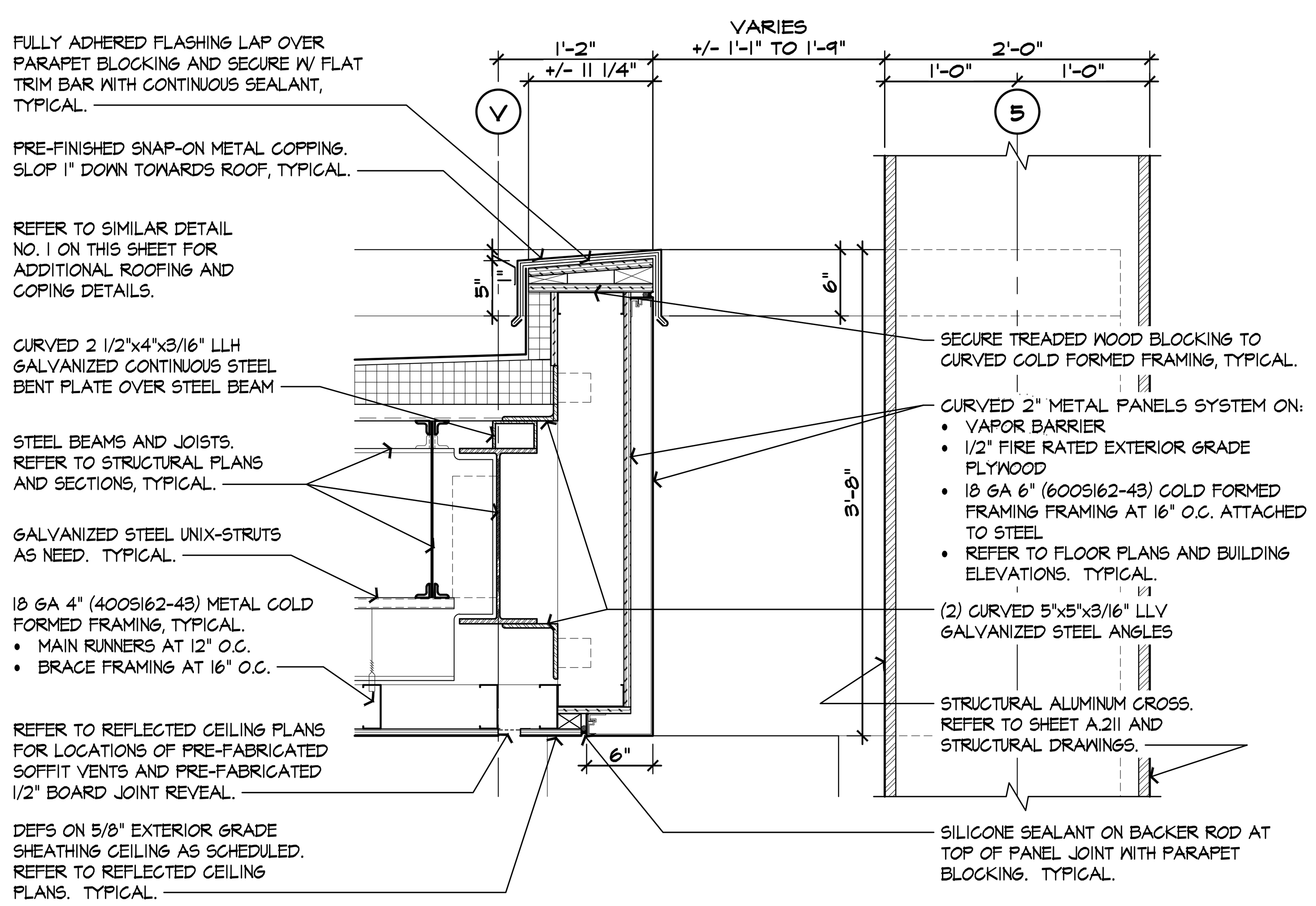
5 A.403 **SECTION**
SCALE: 1"= 1'-0"



7 A.404 **SECTION**
SCALE: 1"= 1'-0"



4 A.403 **SECTION**
SCALE: 1"= 1'-0"



3 A.404 **SECTION**
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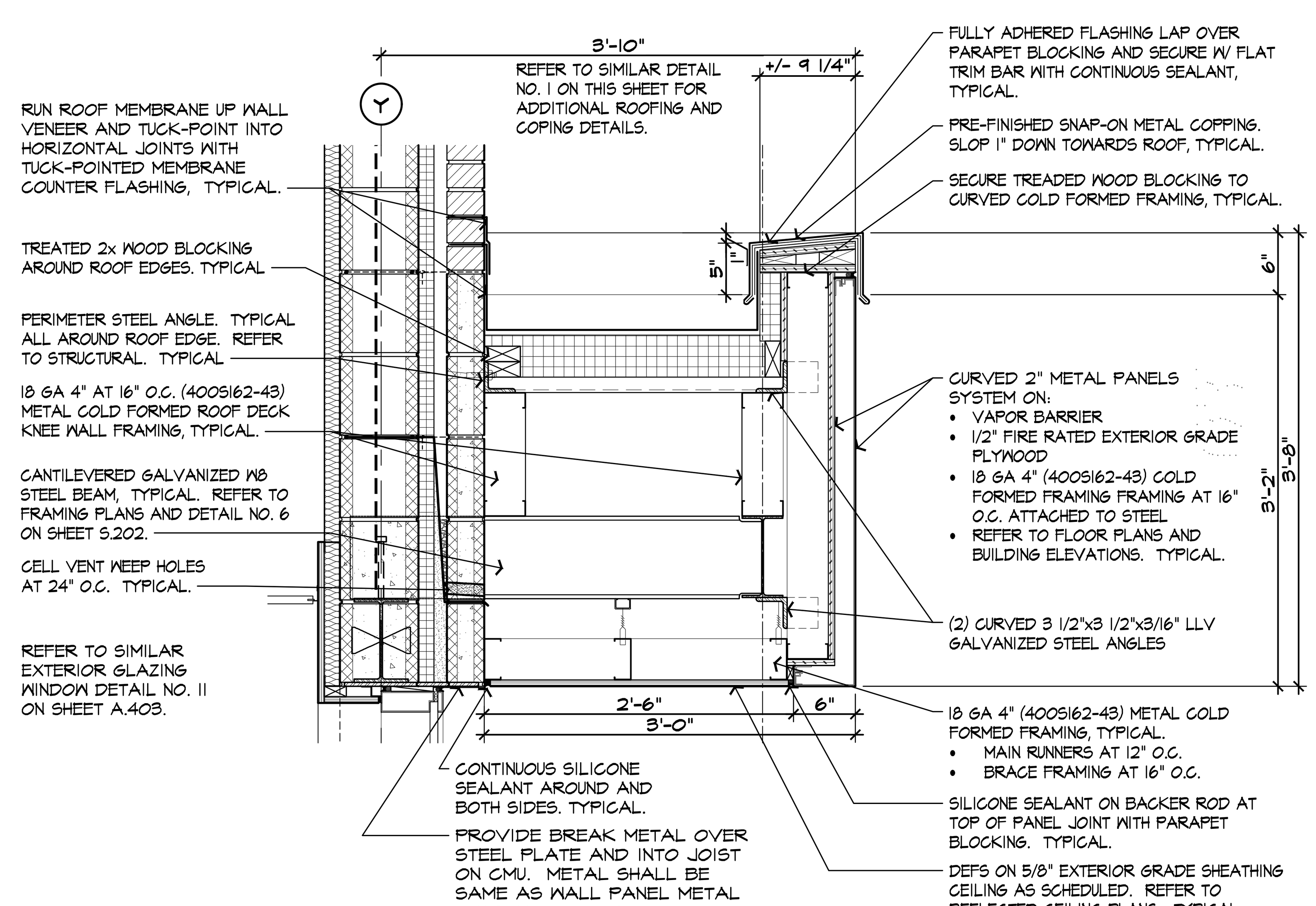
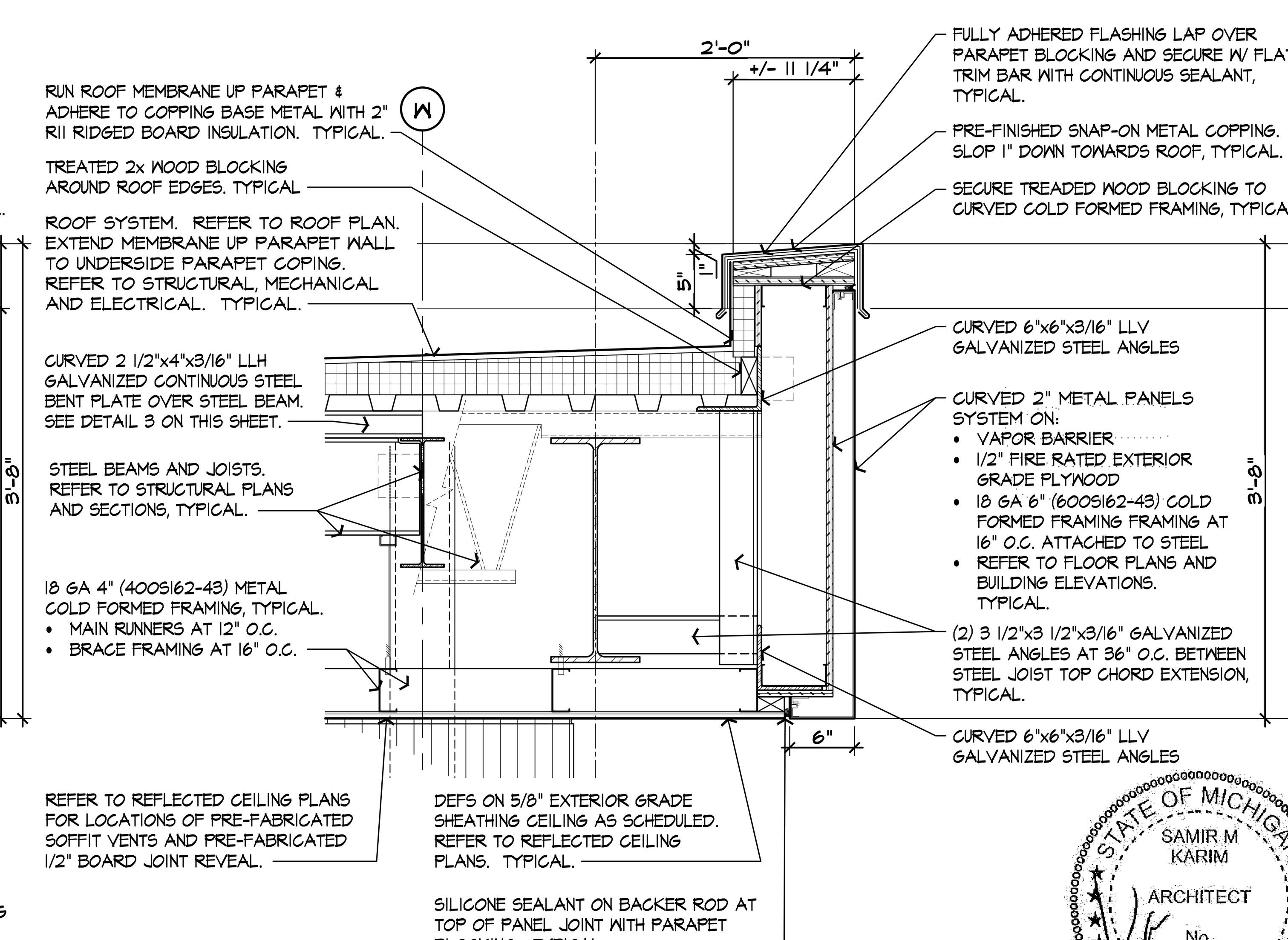


2 A.404 **SECTION**
SCALE: 1"= 1'-0"



1 A.404 **SECTION**
SCALE: 1"= 1'-0"

WHERE ITEMS ARE NOTED AND / OR DIMENSIONED ON ONE SECTION / DETAIL ARE APPLICABLE TO OTHER SECTIONS / DETAILS ON THIS SHEET.

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN
RESIDENTIAL
COMMERCIAL
INDUSTRIAL

G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

GAV ASSOCIATES

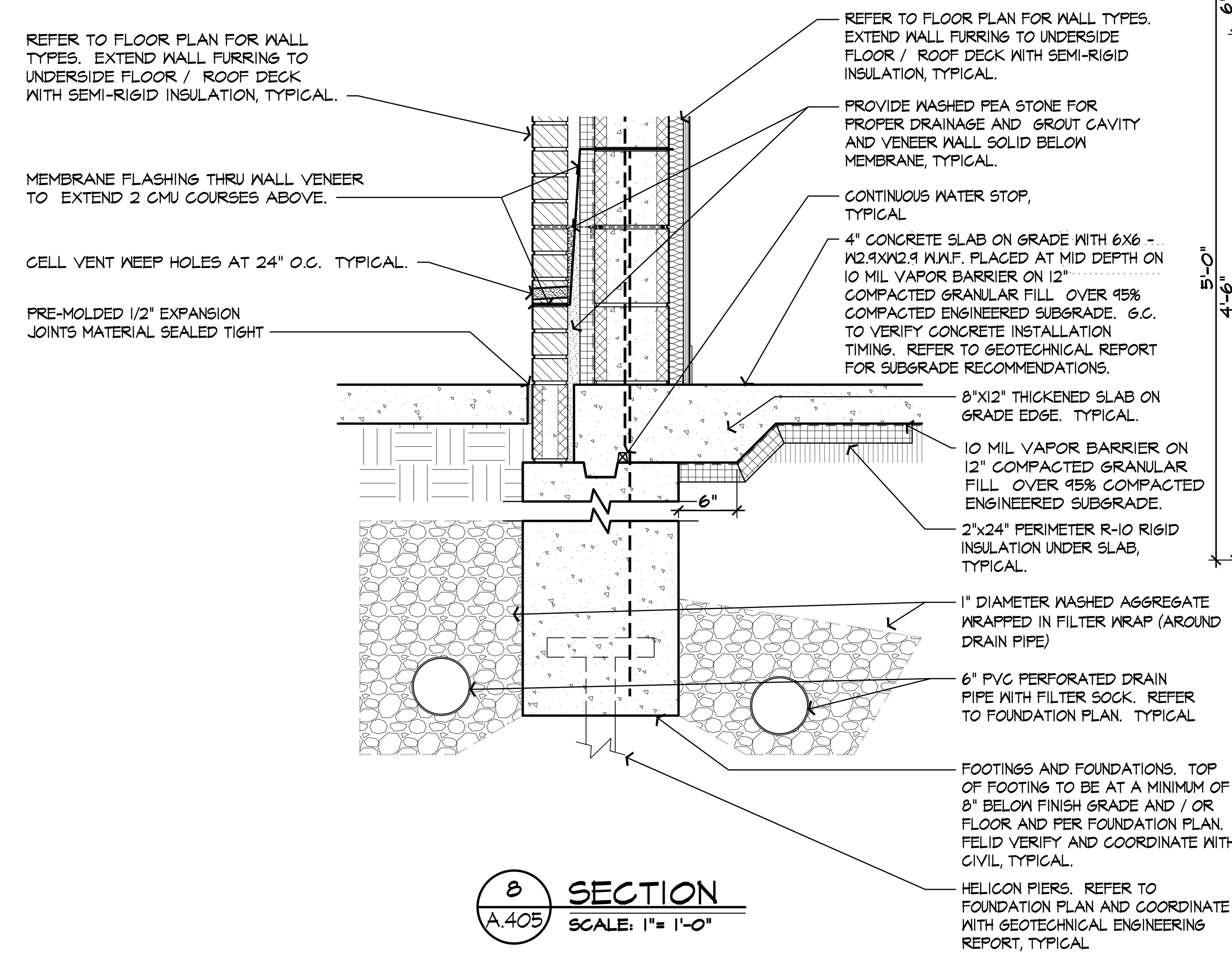
PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

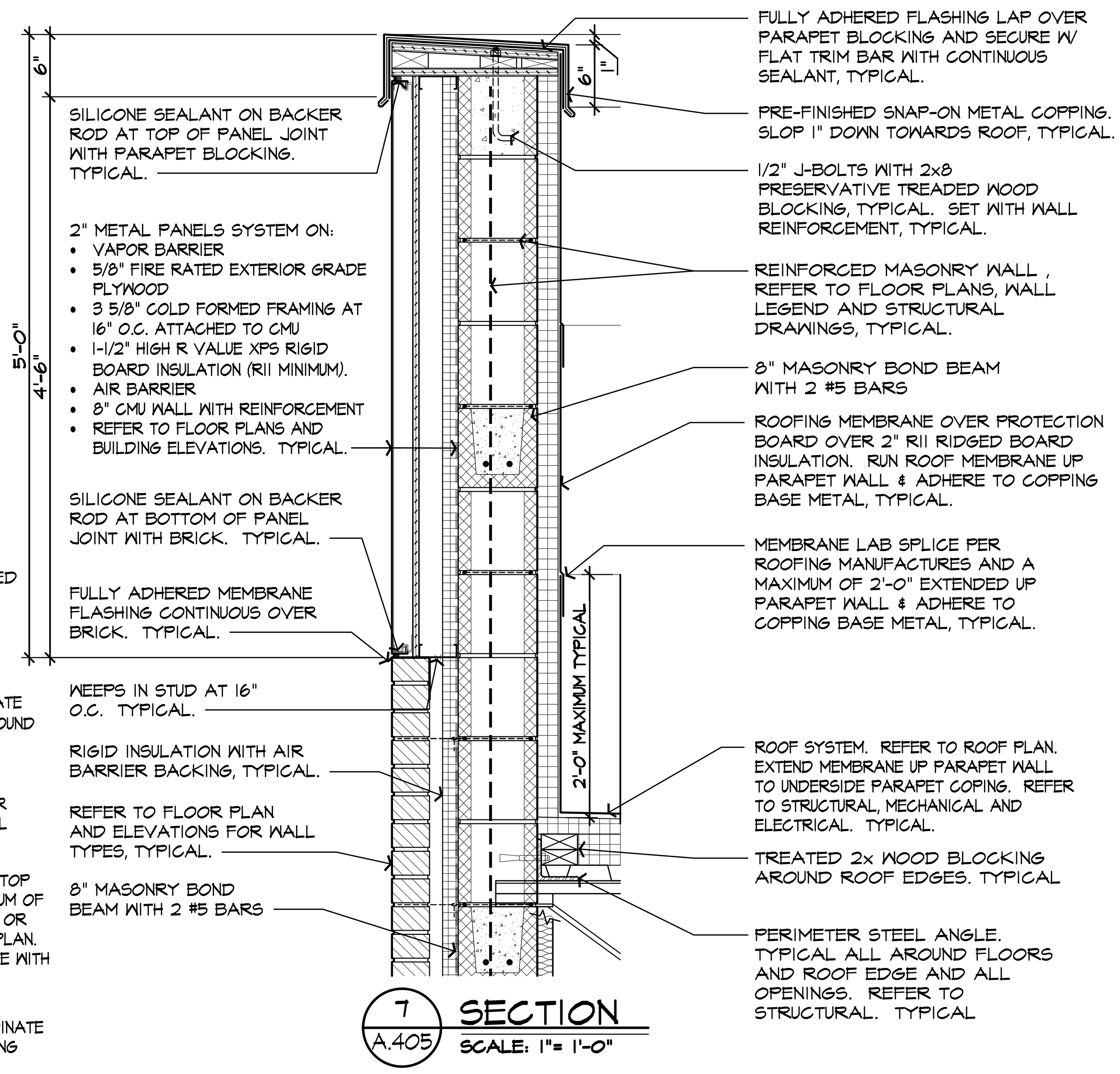
SCALE : 1" = 1'-0"
FILE NAME : 19059_A454
JOB #: 19059

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

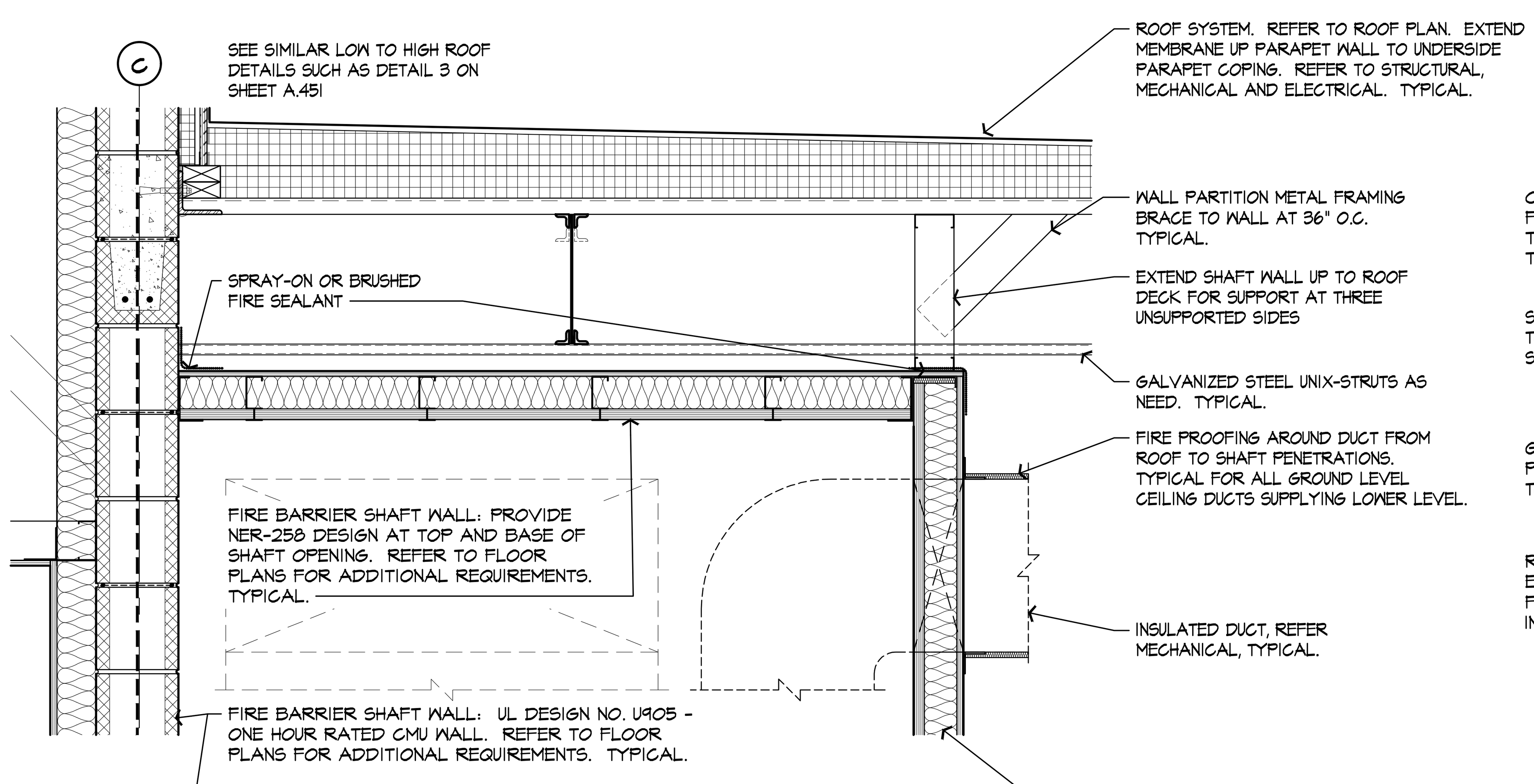
SHEET TITLE
SECTIONS AND DETAILS
SHEET #
A.454



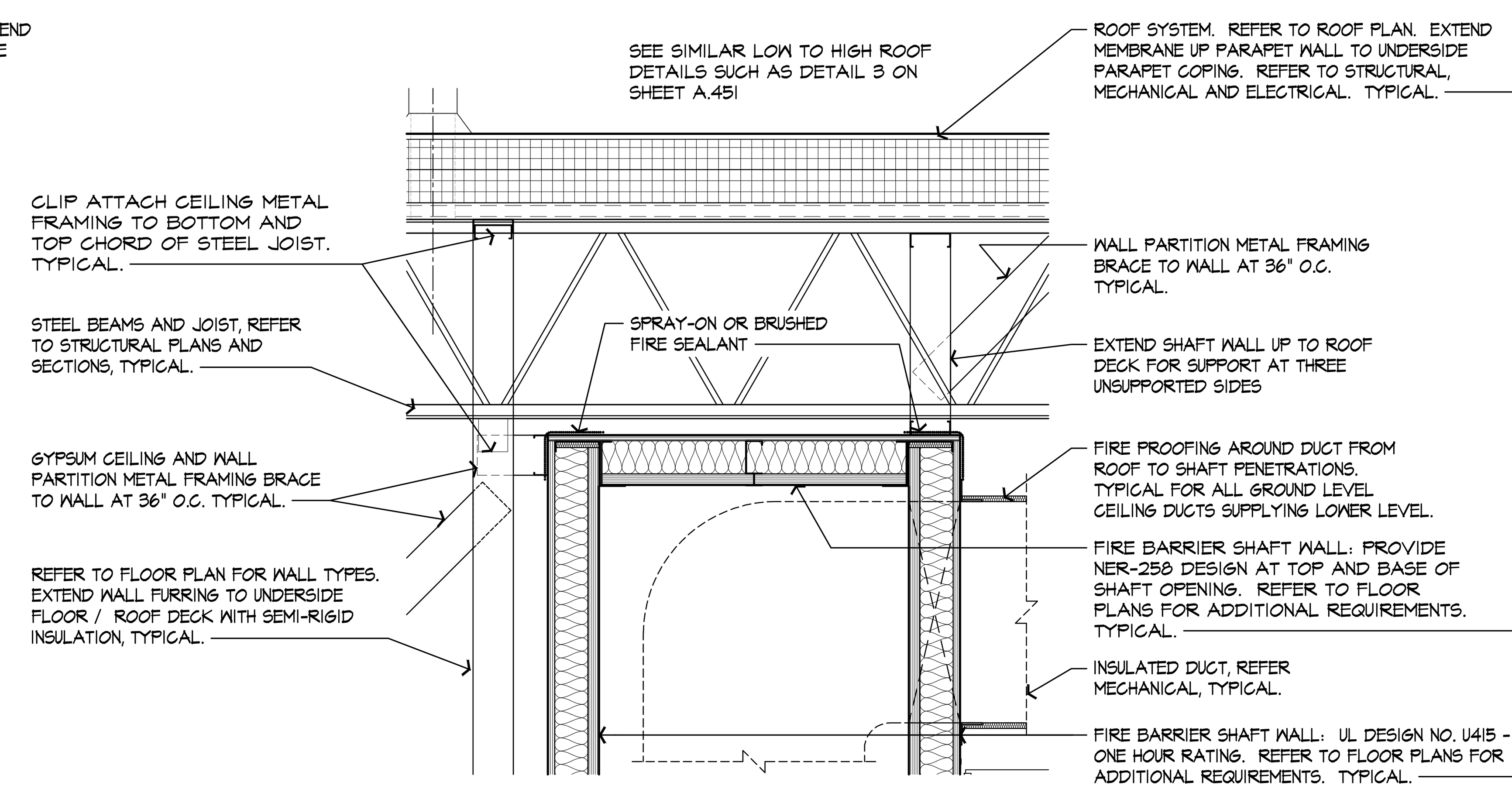
8 A.405 SECTION
SCALE: 1"= 1'-0"



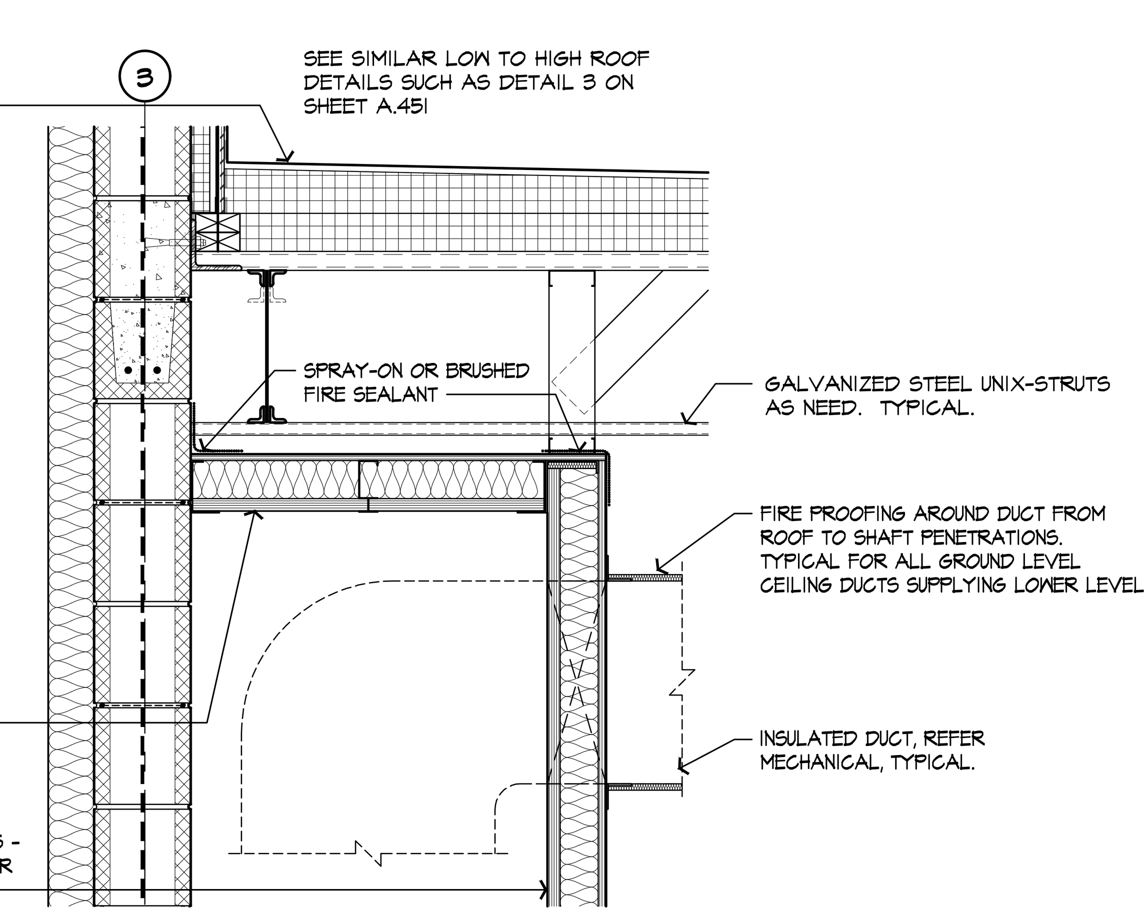
7 A.405 SECTION
SCALE: 1"= 1'-0"



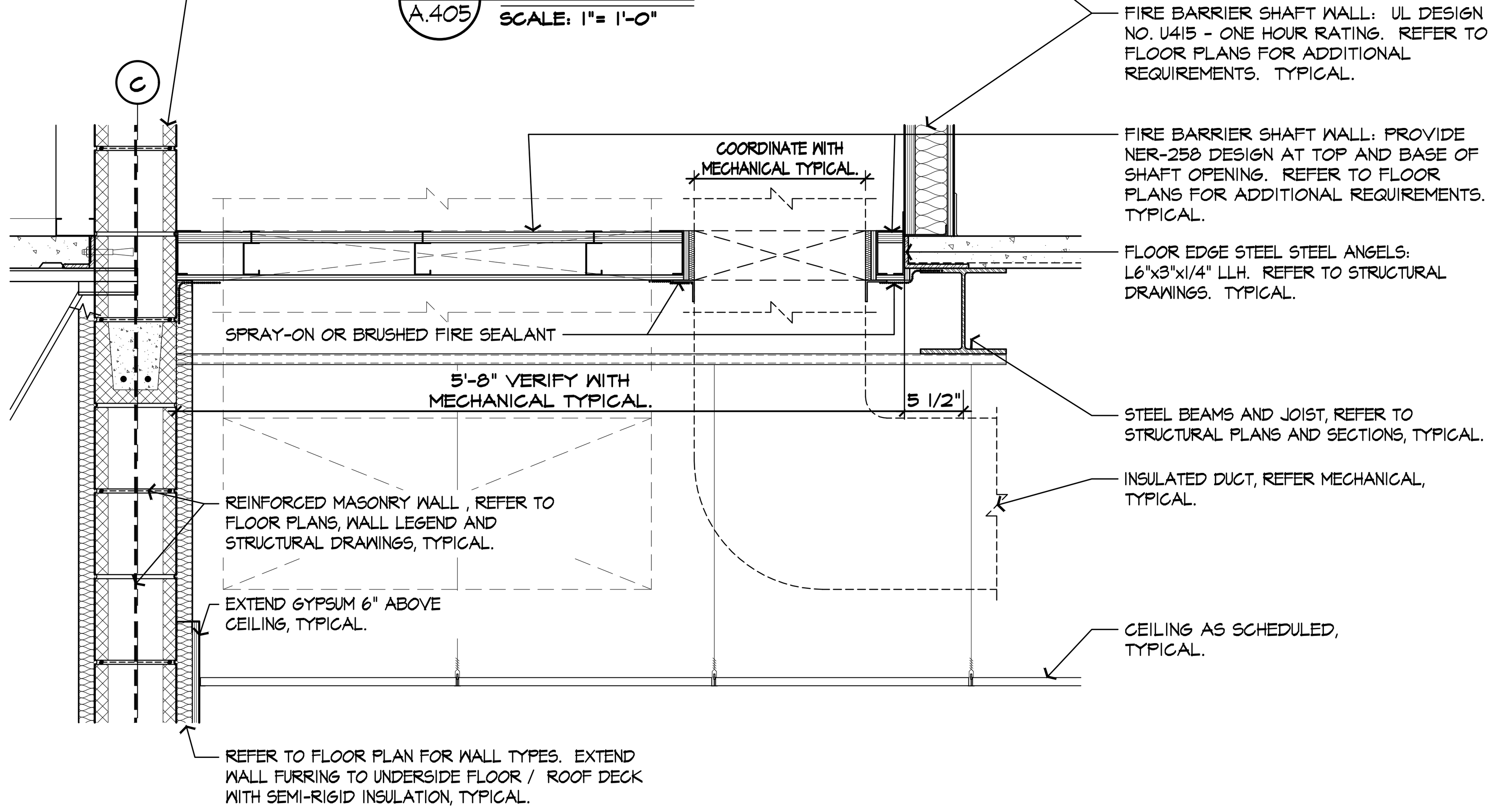
6 A.405 SECTION
SCALE: 1"= 1'-0"



5 A.405 SECTION
SCALE: 1"= 1'-0"



4 A.405 SECTION
SCALE: 1"= 1'-0"



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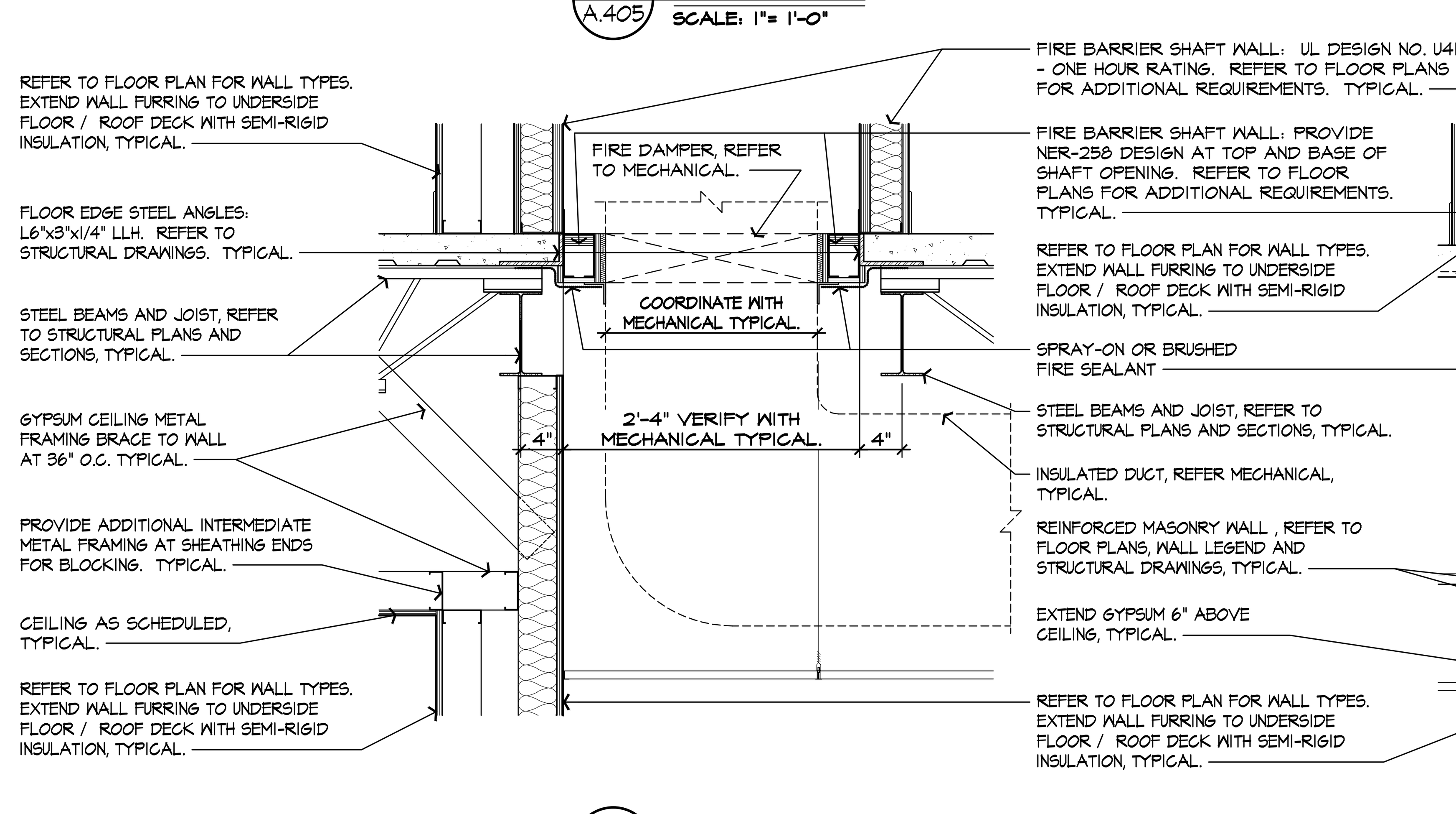
SCALE: 1"= 1'-0"



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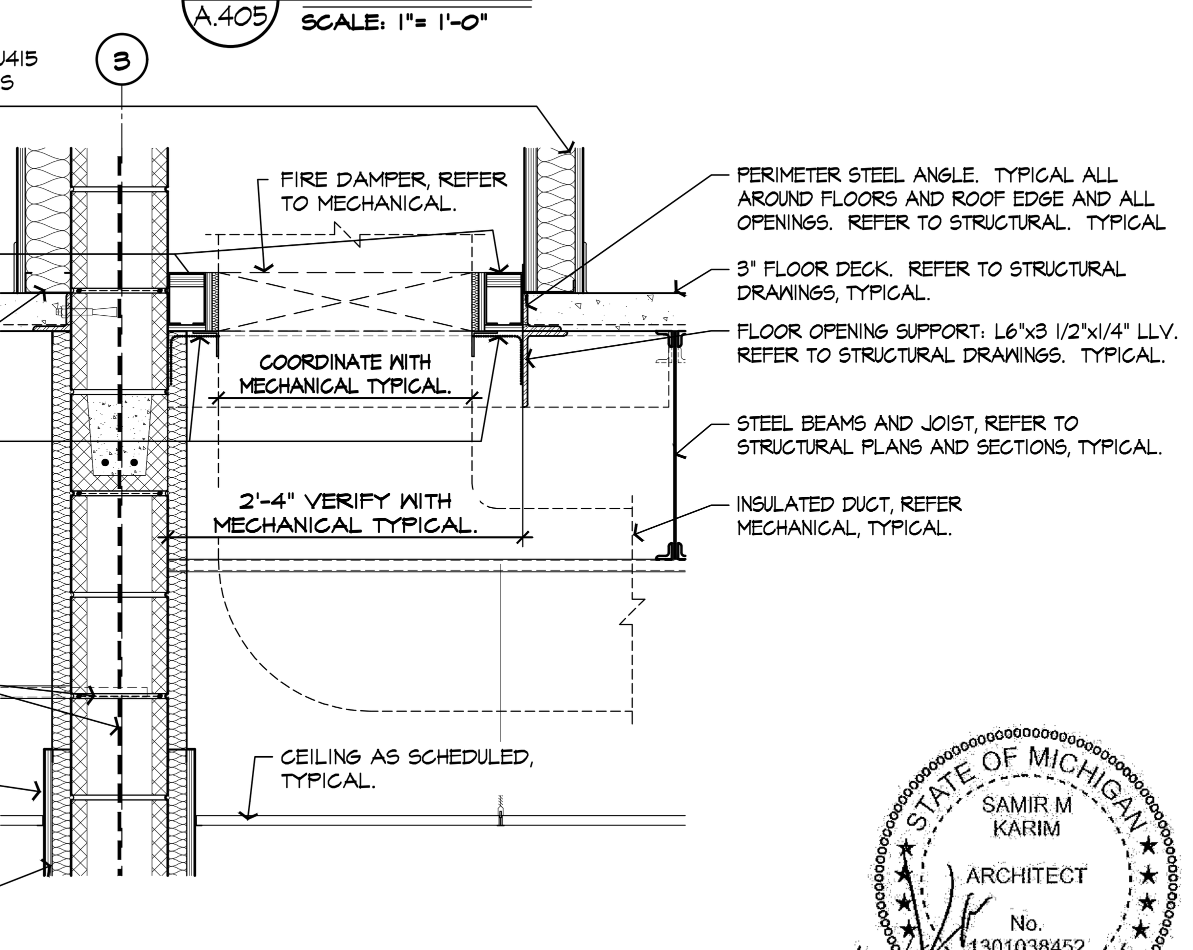


1 A.405 SECTION
SCALE: 1"= 1'-0"

WHERE ITEMS ARE NOTED AND / OR DIMENSIONED ON ONE SECTION / DETAIL ARE APPLICABLE TO OTHER SECTIONS / DETAILS ON THIS SHEET.

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

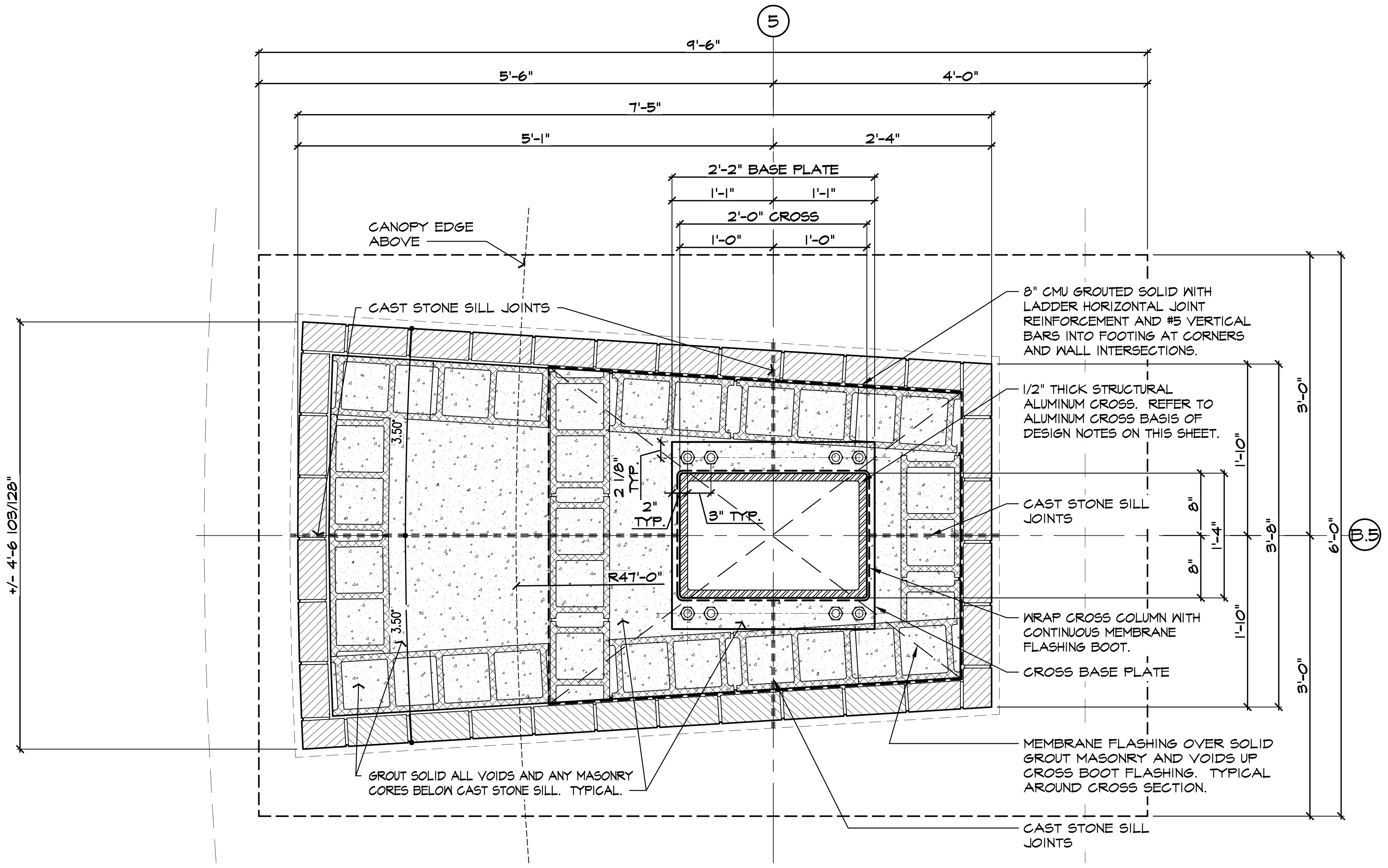
SCALE : 1" = 1'-0"

FILE NAME : 19059_A455

JOB #: 19059

SHEET TITLE
SECTIONS AND DETAILS

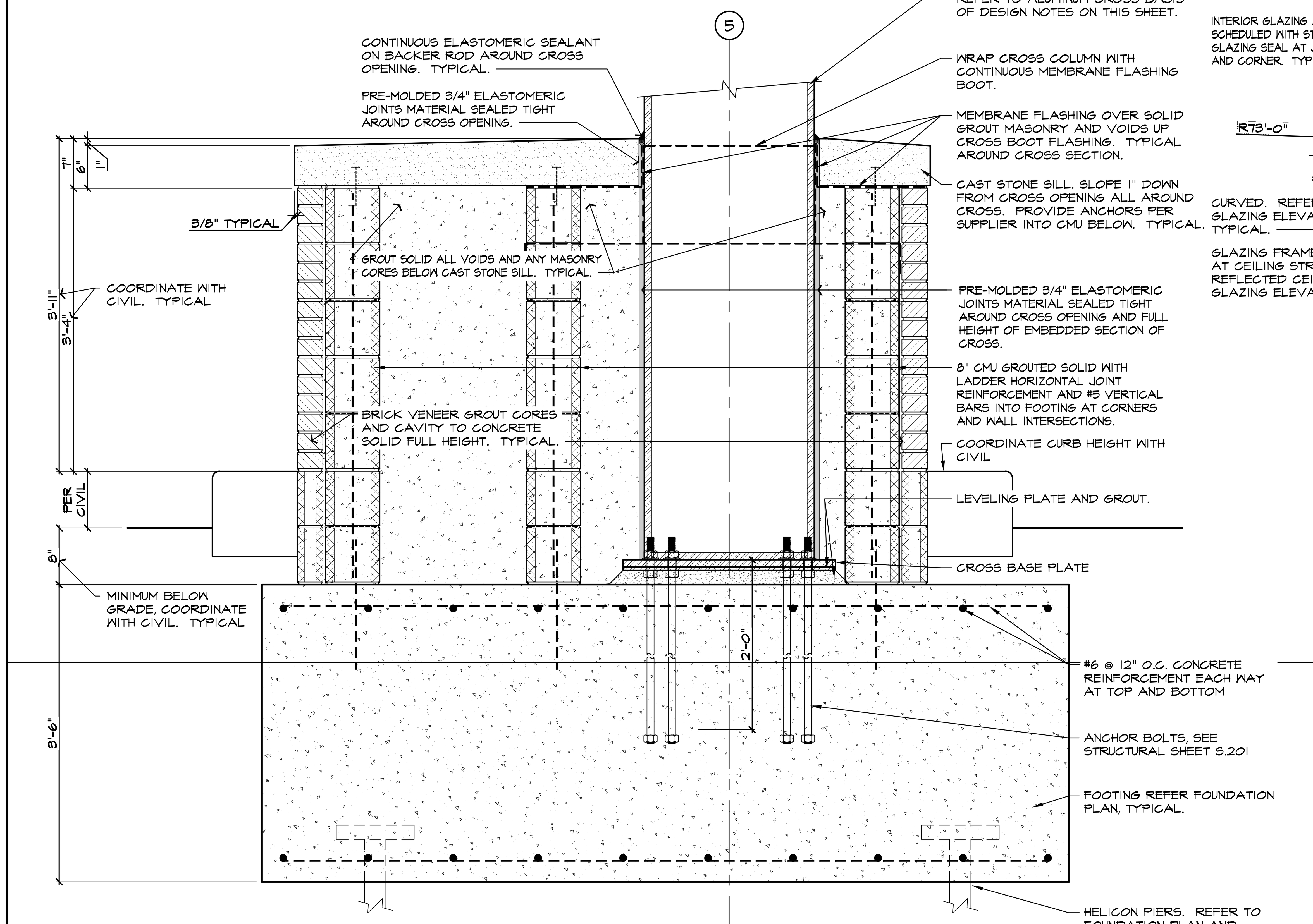
SHEET #
A.455



REFER TO FLOOR PLANS AND BUILDING ELEVATIONS FOR ADDITIONAL INFORMATION.

3 / S.101 SECTION
SCALE: 1" = 1'-0"

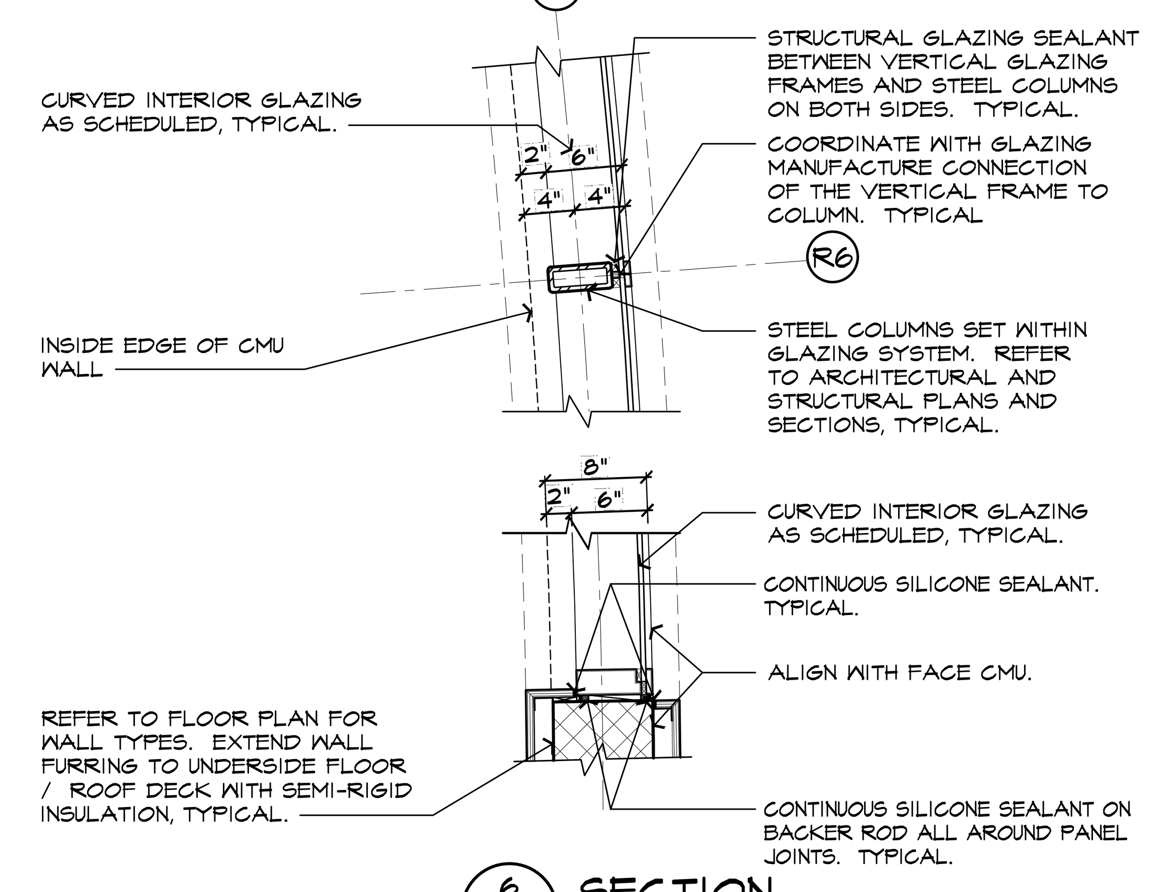
REFER TO STRUCTURAL DRAWINGS FOR CROSS AND BASE PLATE DETAILS.



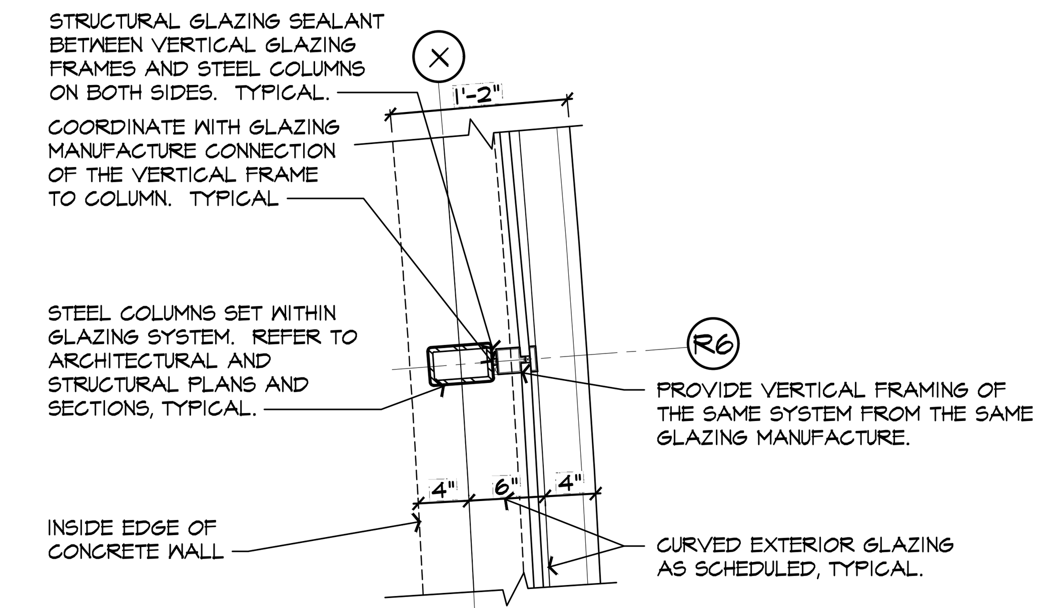
REFER TO FLOOR PLANS AND BUILDING ELEVATIONS FOR ADDITIONAL INFORMATION.

2 / S.101 SECTION
SCALE: 1" = 1'-0"

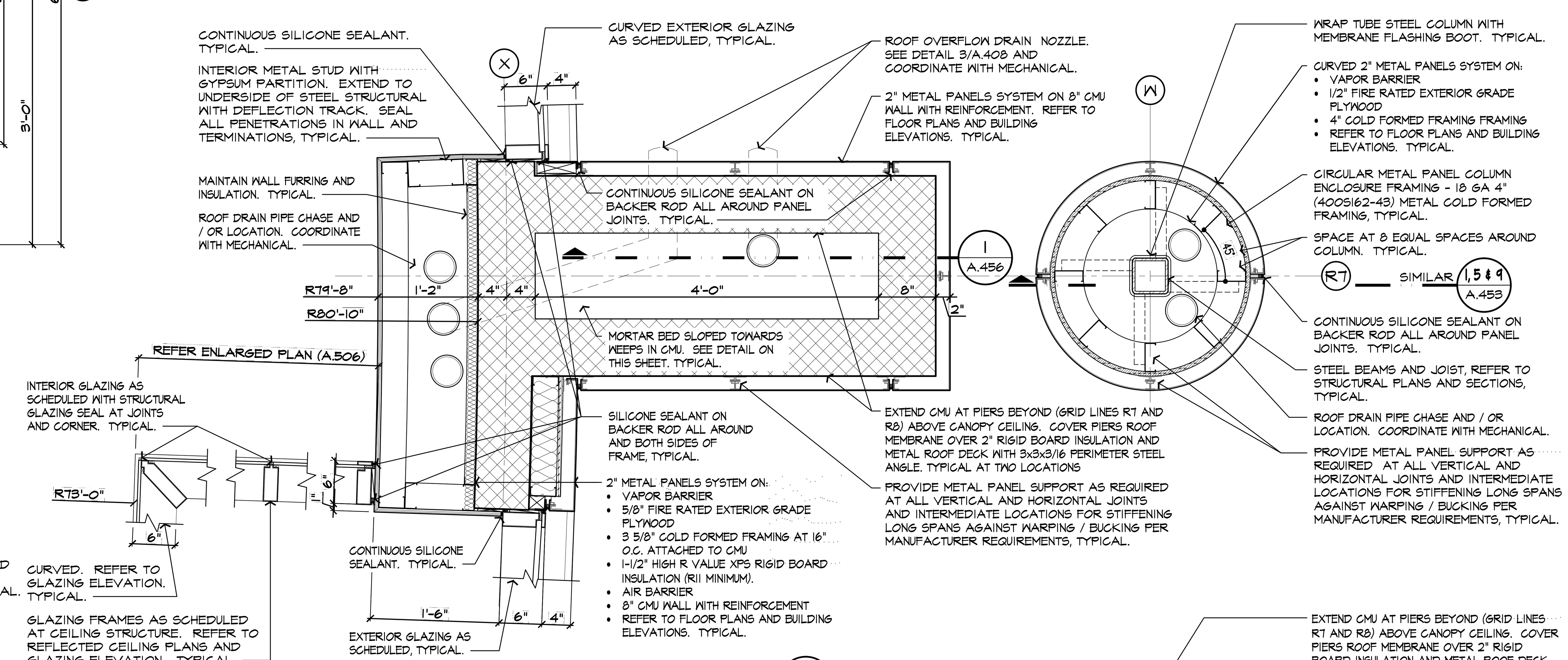
REFER TO STRUCTURAL DRAWINGS FOR CROSS AND BASE PLATE DETAILS.



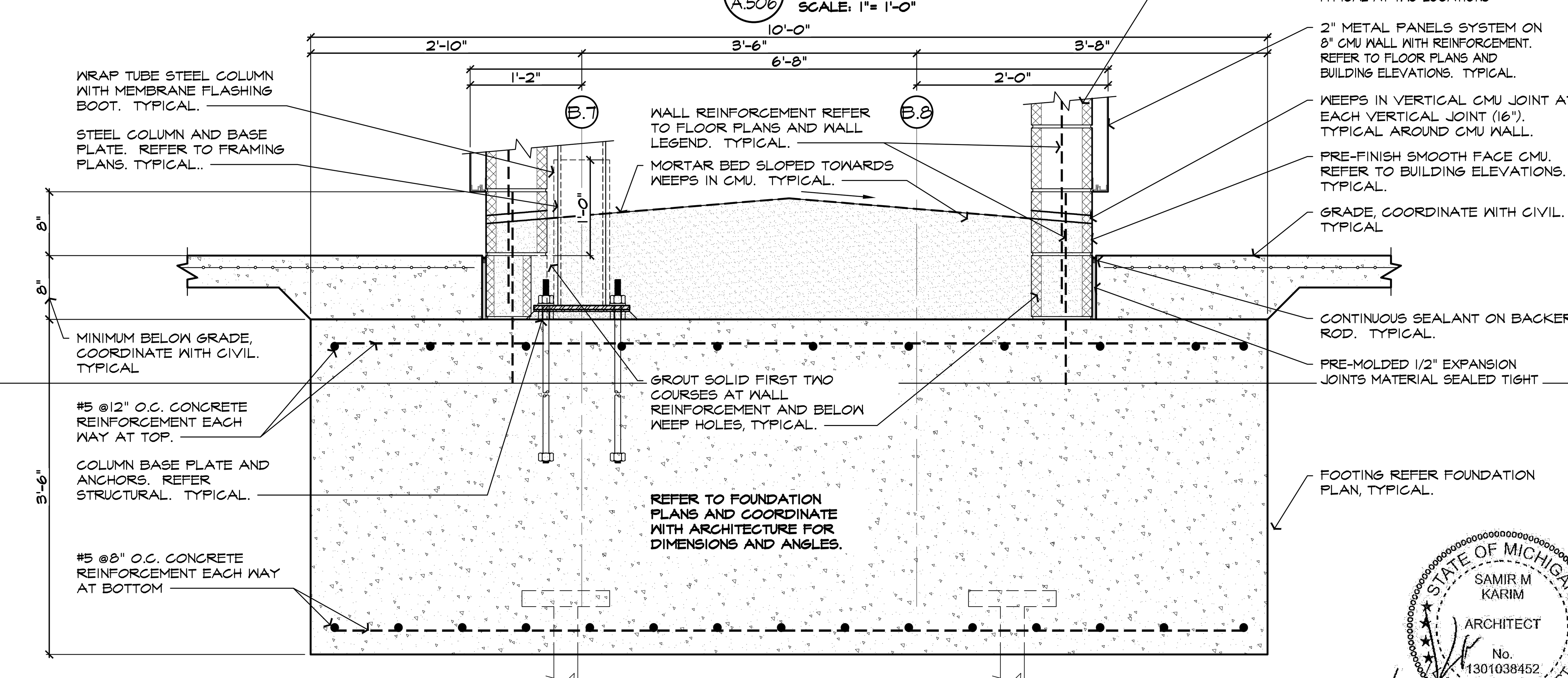
6 / A.506 SECTION
SCALE: 1" = 1'-0"



5 / A.506 SECTION
SCALE: 1" = 1'-0"



4 / A.506 SECTION
SCALE: 1" = 1'-0"



REFER TO FLOOR PLANS AND BUILDING ELEVATIONS FOR ADDITIONAL INFORMATION.

1 / S.101 SECTION
SCALE: 1" = 1'-0"

WHERE ITEMS ARE NOTED AND / OR DIMENSIONED ON ONE SECTION / DETAIL ARE APPLICABLE TO OTHER SECTIONS / DETAILS ON THIS SHEET.

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN
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INDUSTRIAL

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WEB: WWW.GAVASSOCIATES.COM

ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : 1/8" = 1'-0"

FILE NAME : 19059_A456

JOB #: 19059

SHEET TITLE
SECTIONS AND DETAILS

SHEET #
A.456

RR ACCESSORIES ABBREVIATIONS:

GB	GRAB BAR
MR	MIRROR (ONE CONTIGUOUS PIECE)
SD	SOAP DISPENSER
SKC	COUNTER MOUNTED SINK (REFER TO PLUMBING DRAWINGS FOR TYPE)
SKW	WALL MOUNTED SINK (SEE PLUMBING DRAWINGS FOR TYPE)
SND	SANITARY NAPKIN DISPENSER
SNR	SANITARY NAPKIN RECEPTACLE
TPW	RECESSED COMBINATION PAPER TOWEL & WASTE RECEPTACLE
TL	TOILET (REFER TO PLUMBING DRAWINGS FOR TYPE)
TP	TOILET PAPER HOLDER
UR	URINAL

FLOOR PLAN SYMBOL LEGEND:(CONTINUED):

12. SERVICE SINK WITH MOP RACK, REFER TO PLUMBING
13. ROOF ACCESS LADDER. SEE DETAILS ON SHEET A.408
14. BARRIER FREE POWER ASSIST DOOR ACTUATOR.
15. FIRE EXTINGUISHER CABINET. FULLY RECESSED TRIM-LESS AND WITH FLUSH HANDLE.
16. ROOF DRAIN PIPE CHASE AND / OR LOCATION. COORDINATE WITH MECHANICAL.
17. ROOF OVERFLOW DRAIN NOZZLE. SEE DETAIL 3/A.408 AND COORDINATE WITH MECHANICAL.
18. HOT WATER HEATER. COORDINATE WITH MECHANICAL AND ELECTRICAL.
19. ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR SUPPLIER. SEE DETAIL 7/A.408
20. SUMP PUMP AND PIT FOR BUILDING FOUNDATION WALL PERIMETER DRAIN PIPE. REFER TO ELECTRICAL AND MECHANICAL AND COORDINATE WITH CONCRETE WORK. 30" DIA.x36" DEEP WITH GALVANIZED STEEL GRATING COVER TYPICAL.
21. WALK OFF MATT: REMOVABLE ALUMINUM WITH EXTERIOR GRADE CARPET TREADS, CUSHION FEET BETWEEN BOTH DOOR THRESHOLD AND ABOVE FLOOR, NOT RECESSED IN CONCRETE. COORDINATE WITH OWNER.
22. FIRE PROTECTION STAND PIPES. COORDINATE WITH MECHANICAL AND FIRE PROTECTION.

FLOOR PLAN SYMBOL LEGEND:

- 1 HOUR FIRE BARRIER WALL CONSTRUCTION
- 1 FLOOR PLANS KEY NOTE
- 5 WALL TYPE
- 101 DOOR SCHEDULE NUMBER
- 001 WINDOW TYPE SCHEDULE NUMBER

FLOOR PLANS NOTE LEGEND:

1. RECESSED KNOX BOX. COORDINATE WITH LOCAL FIRE DEPARTMENT.
2. FIRE DEPARTMENT CONNECTION (F.D.C.) AND WATER METER LOCATION. REFER TO MECHANICAL.
3. GAS METER, COORDINATE WITH CIVIL AND MECHANICAL.
4. HOSE BIB, REFER TO MECHANICAL
5. FIRE PROTECTION ASSEMBLY, REFER TO MECHANICAL.
6. ALARM PANEL & SPRINKLER SYSTEM STATUS PANEL
7. ELEVATOR SUMP PUMP AND PIT. COORDINATE & VERIFY LOCATION WITH ELEVATOR MANUFACTURER AND FOOTINGS AND ELECTRICAL / MECHANICAL. 24" DIA.x36" DEEP WITH GALVANIZED STEEL GRATING COVER TYPICAL.
8. ELEVATOR SUMP PUMP CONTROL PANEL. COORDINATE LOCATION WITH ELEVATOR MANUFACTURER.
9. ELEVATOR SHUT OFF BOX. COORDINATE WITH LOCAL FIRE DEPARTMENT.
10. SEMI RECESSED ELECTRIC WATER COOLER. COORDINATE MECHANICAL AND WITH MANUFACTURER SPECIFICATIONS.
11. UNIT HEATER - FLOOR (11) OR WALL 4" MAXIMUM RECESS (11A). PROVIDE COMPLETE TRIM /CLOSURE AROUND UNIT BY MANUFACTURE. REFER TO MECHANICAL.

WALL LEGEND (CONTINUED):

7B (4")
WALL TYPE 7B:
- SAME AS WALL TYPE 7 OR 7A EXCEPT FOR GYPSUM BOARD ON ONE SIDE ONLY

8 (4 1/2")
FIRE BARRIER SHAFT WALL: 5/8" FIRE RATED GYPSUM BOARD ON MINIMUM 18 GA. 4" DEEP METAL "C-H" SHAPED STUDS @ 16" O.C WITH 1" FIRE RATED GYPSUM LINER BOARD.
- UL DESIGN NO. U415 - ONE HOUR RATING
- FULL HEIGHT SOUND BATT INSULATION AS APPROVED BY THE UL DESIGN
- EXTEND TO UNDERSIDE OF ROOF DECK.
- PROVIDE DEFLECTION TRACK @ ROOF TO WALL CONNECTION.APPROVED BY THE UL DESIGN
- PROVIDE NER-258 DESIGN AT BASE OF SHAFT AT FLOOR OPENING..

9 (2")
- 5/8" GYPSUM BOARD ON 20 GA. 1-1/2" METAL STUDS @ 16" O.C. EXTEND TO UNDERSIDE OF DECK
- EXTEND 6" ABOVE CEILING U.N.O.
- FULL HEIGHT R-6 BATT INSULATION (PROVIDED R-6 SEMI RIDGED INSULATION ABOVE CEILING WHERE GYPSUM BOARD IS ABSENT.

9A (4")
WALL TYPE 9A:
- SAME AS WALL TYPE EXCEPT FOR 18 GA - 3-5/8" METAL STUDS @ 16" O.C
- FULL HEIGHT R-11 BATT INSULATION (PROVIDED R-11 SEMI RIDGED INSULATION ABOVE CEILING WHERE GYPSUM BOARD IS ABSENT.

WALL LEGEND (CONTINUED):

5 (8")
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

5A (8")
FIRE BARRIER WALL:
- UL DESIGN NO. U905 - ONE HOUR RATING
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

6
- COLUMN ENCLOSURE: 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 1/2" EXTERIOR GRADE PLYWOOD ON 18 GA - 4" COLD FORMED METAL FRAMING AT 12" O.C. PROVIDE #5 VERTICAL DOWELS @12" O.C. FOR TWO CMU COURSES.

7 (4 1/2")
5/8" GYPSUM BOARD ON BOTH SIDES OF 18 GA - 3-5/8" METAL STUDS @ 16" O.C WITH:
- FULL HEIGHT SOUND BATT INSULATION.
- EXTEND TO UNDERSIDE OF ROOF DECK U.N.O.
- PROVIDE DEFLECTION TRACK @ ROOF TO WALL CONNECTION.
- BRACE TOP WALL TO NEAREST STEEL MEMBER AT 4'-0" O.C. MAXIMUM.
- SEAL ALL PENETRATIONS IN WALL.

7A (6")
WALL TYPE 7A:
- SAME AS WALL TYPE 7 EXCEPT FOR 18 GA - 6" METAL STUDS AT 16" O..C

WALL LEGEND: REFER TO OVER ALL FLOOR PLANS SHEET A.101 AND A.102 FOR WALL LEGEND NOTES.

1 (1'-2") / **1A** (1'-10")
- 1'-2" THICK CAST IN PLACE FORMED CONCRETE WALL.
- REFER TO STRUCTURAL SHEETS FOR REINFORCEMENT.
- WATER PROOFING MEMBRANE FULL HEIGHT OF WALL BELOW GRADE
- 2" RIDGED BOARD INSULATION FULL HEIGHT OF WALL BELOW GRADE.
- INTEGRATED WATER STOPS AT ALL POUR JOINTS WITH FOUNDATIONS.

WALL TYPE 1A:
- SAME AS WALL TYPE 1 EXCEPT 1'-10" THICKNESS.

2 (1'-2") / **2A** (1'-10")
- 4" BRICK VENEER
- 2 3/4" CAVITY WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM) AND AIR BARRIER.
- 8" THICK CAST IN PLACE FORMED CONCRETE WALL.
  - REFER TO STRUCTURAL SHEETS FOR REINFORCEMENT.
  - WATER PROOFING MEMBRANE FULL HEIGHT OF WALL BELOW GRADE
  - 2" RIDGED BOARD INSULATION FULL HEIGHT OF WALL BELOW GRADE / BRICK LEDGE.
  - INTEGRATED WATER STOPS AT ALL POUR JOINTS WITH FOUNDATIONS.

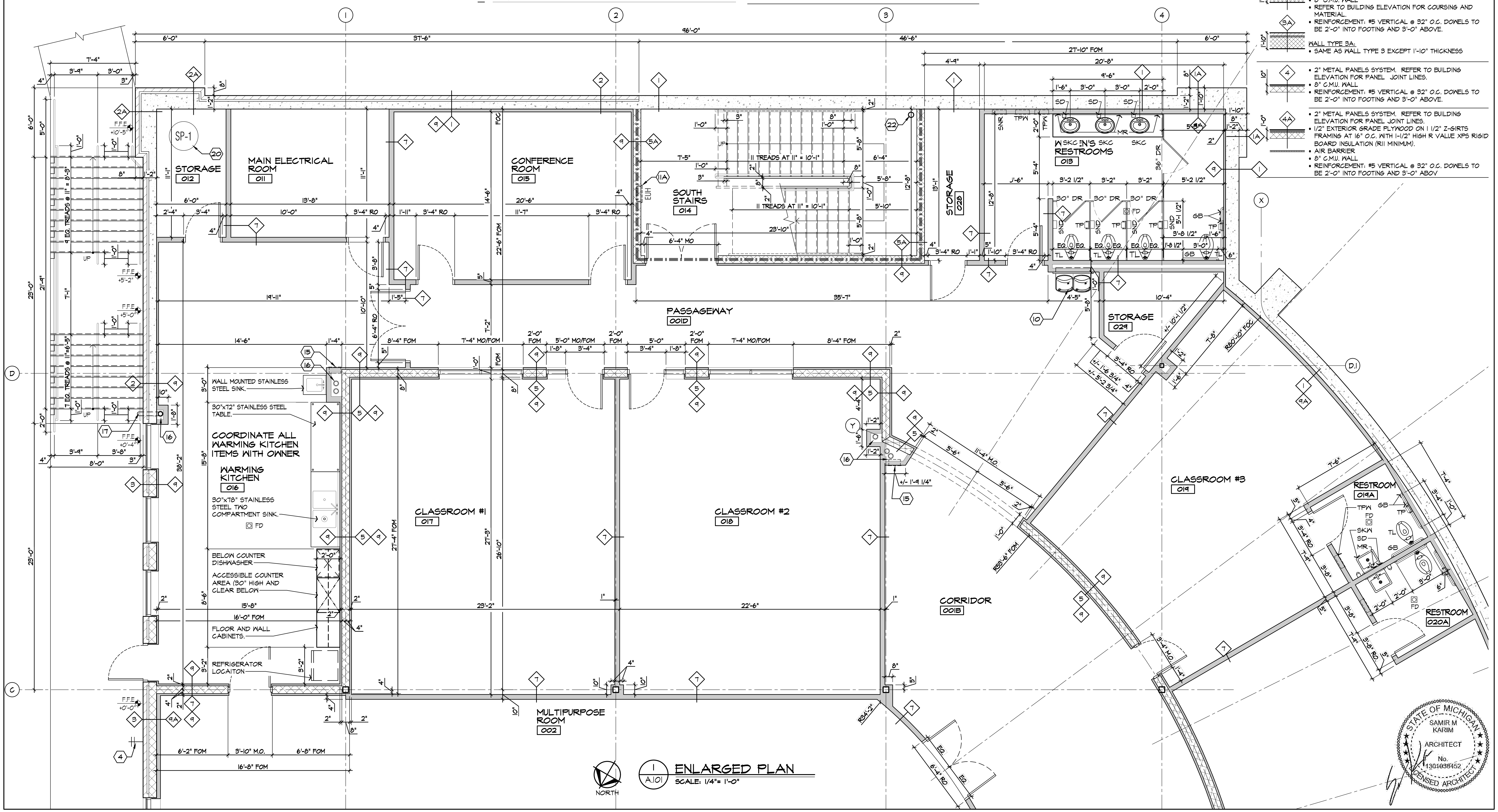
WALL TYPE 2A:
- SAME AS WALL TYPE 2 EXCEPT 1'-10" THICKNESS.

3 (1'-2") / **3A** (1'-10")
- 4" BRICK VENEER
- 2 3/4" CAVITY WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM) AND AIR BARRIER
- 8" C.M.U. WALL
- REFER TO BUILDING ELEVATION FOR COURSING AND MATERIAL.
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

WALL TYPE 3A:
- SAME AS WALL TYPE 3 EXCEPT 1'-10" THICKNESS

4 (10")
- 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

4A (1'-0")
- 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 1/2" EXTERIOR GRADE PLYWOOD ON 1 1/2" Z-GIRTS FRAMING AT 16" O.C. WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM).
- AIR BARRIER
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOV



1 A.101 ENLARGED PLAN
SCALE: 1/4"= 1'-0"

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN
RESIDENTIAL COMMERCIAL INDUSTRIAL
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ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
	DS	DS

SCALE : AS NOTED
FILE NAME : 19059_A501
JOB # : 19059
SHEET TITLE
ENLARGED FLOOR PLANS

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

SHEET #
A.501

RR ACCESSORIES ABBREVIATIONS:

GB	GRAB BAR
MR	MIRROR (ONE CONTIGUOUS PIECE)
SD	SOAP DISPENSER
SKC	COUNTER MOUNTED SINK (REFER TO PLUMBING DRAWINGS FOR TYPE)
SKW	WALL MOUNTED SINK (SEE PLUMBING DRAWINGS FOR TYPE)
SND	SANITARY NAPKIN DISPENSER
SNR	SANITARY NAPKIN RECEPTACLE
TPW	RECESSED COMBINATION PAPER TOWEL & WASTE RECEPTACLE
TL	TOILET (REFER TO PLUMBING DRAWINGS FOR TYPE)
TP	TOILET PAPER HOLDER
UR	URINAL

FLOOR PLAN SYMBOL LEGEND: (CONTINUED):

12. SERVICE SINK WITH MOP RACK, REFER TO PLUMBING
13. ROOF ACCESS LADDER. SEE DETAILS ON SHEET A.408
14. BARRIER FREE POWER ASSIST DOOR ACTUATOR.
15. FIRE EXTINGUISHER CABINET. FULLY RECESSED TRIM-LESS AND WITH FLUSH HANDLE.
16. ROOF DRAIN PIPE CHASE AND / OR LOCATION. COORDINATE WITH MECHANICAL.
17. ROOF OVERFLOW DRAIN NOZZLE. SEE DETAIL 3/A.408 AND COORDINATE WITH MECHANICAL.
18. HOT WATER HEATER. COORDINATE WITH MECHANICAL AND ELECTRICAL.
19. ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR SUPPLIER. SEE DETAIL 7/A.408
20. SUMP PUMP AND PIT FOR BUILDING FOUNDATION WALL PERIMETER DRAIN PIPE. REFER TO ELECTRICAL AND MECHANICAL AND COORDINATE WITH CONCRETE WORK. 30" DIA.x36" DEEP WITH GALVANIZED STEEL GRATING COVER TYPICAL.
21. WALK OFF MATT: REMOVABLE ALUMINUM WITH EXTERIOR GRADE CARPET TREADS, CUSHION FEET BETWEEN BOTH DOOR THRESHOLD AND ABOVE FLOOR, NOT RECESSED IN CONCRETE. COORDINATE WITH OWNER.
22. FIRE PROTECTION STAND PIPES. COORDINATE WITH MECHANICAL AND FIRE PROTECTION.

FLOOR PLAN SYMBOL LEGEND:

- 1 HOUR FIRE BARRIER WALL CONSTRUCTION
- (1) FLOOR PLANS KEY NOTE
- (5) WALL TYPE
- (101) DOOR SCHEDULE NUMBER
- (001) WINDOW TYPE SCHEDULE NUMBER

FLOOR PLANS NOTE LEGEND:

1. RECESSED KNOX BOX. COORDINATE WITH LOCAL FIRE DEPARTMENT.
2. FIRE DEPARTMENT CONNECTION (F.D.C.) AND WATER METER LOCATION. REFER TO MECHANICAL.
3. GAS METER, COORDINATE WITH CIVIL AND MECHANICAL.
4. HOSE BIB, REFER TO MECHANICAL
5. FIRE PROTECTION ASSEMBLY, REFER TO MECHANICAL.
6. ALARM PANEL & SPRINKLER SYSTEM STATUS PANEL
7. ELEVATOR SUMP PUMP AND PIT. COORDINATE & VERIFY LOCATION WITH ELEVATOR MANUFACTURER AND FOOTINGS AND ELECTRICAL / MECHANICAL. 24" DIA.x36" DEEP WITH GALVANIZED STEEL GRATING COVER TYPICAL.
8. ELEVATOR SUMP PUMP CONTROL PANEL. COORDINATE LOCATION WITH ELEVATOR MANUFACTURER.
9. ELEVATOR SHUT OFF BOX. COORDINATE WITH LOCAL FIRE DEPARTMENT.
10. SEMI RECESSED ELECTRIC WATER COOLER. COORDINATE MECHANICAL AND WITH MANUFACTURER SPECIFICATIONS.
11. UNIT HEATER - FLOOR (11) OR WALL 4" MAXIMUM RECESS (11A). PROVIDE COMPLETE TRIM /CLOSURE AROUND UNIT BY MANUFACTURE. REFER TO MECHANICAL.

WALL LEGEND (CONTINUED):

7B (4")
WALL TYPE 7B:
- SAME AS WALL TYPE 7 OR 7A EXCEPT FOR GYPSUM BOARD ON ONE SIDE ONLY

8 (4 1/2")
FIRE BARRIER SHAFT WALL: 5/8" FIRE RATED GYPSUM BOARD ON MINIMUM 18 GA. 4" DEEP METAL "C-H" SHAPED STUDS @ 16" O.C WITH 1" FIRE RATED GYPSUM LINER BOARD.
- UL DESIGN NO. U415 - ONE HOUR RATING
- FULL HEIGHT SOUND BATT INSULATION AS APPROVED BY THE UL DESIGN
- EXTEND TO UNDERSIDE OF ROOF DECK.
- PROVIDE DEFLECTION TRACK @ ROOF TO WALL CONNECTION.APPROVED BY THE UL DESIGN
- PROVIDE NER-258 DESIGN AT BASE OF SHAFT AT FLOOR OPENING..

9 (2")
- 5/8" GYPSUM BOARD ON 20 GA. 1-1/2" METAL STUDS @ 16" O.C. EXTEND TO UNDERSIDE OF DECK
- EXTEND 6" ABOVE CEILING U.N.O.
- FULL HEIGHT R-6 BATT INSULATION (PROVIDED R-6 SEMI RIDGED INSULATION ABOVE CEILING WHERE GYPSUM BOARD IS ABSENT.

9A (4")
WALL TYPE 9A:
- SAME AS WALL TYPE EXCEPT FOR 18 GA - 3-5/8" METAL STUDS @ 16" O.C
- FULL HEIGHT R-11 BATT INSULATION (PROVIDED R-11 SEMI RIDGED INSULATION ABOVE CEILING WHERE GYPSUM BOARD IS ABSENT.

WALL LEGEND (CONTINUED):

5 (8")
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

5A (8")
FIRE BARRIER WALL:
- UL DESIGN NO. U905 - ONE HOUR RATING
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

6
- COLUMN ENCLOSURE: 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 1/2" EXTERIOR GRADE PLYWOOD ON 18 GA - 4" COLD FORMED METAL FRAMING AT 12" O.C. PROVIDE #5 VERTICAL DOWELS @12" O.C. FOR TWO CMU COURSES.

7 (4 1/2")
5/8" GYPSUM BOARD ON BOTH SIDES OF 18 GA - 3-5/8" METAL STUDS @ 16" O.C WITH:
- FULL HEIGHT SOUND BATT INSULATION.
- EXTEND TO UNDERSIDE OF ROOF DECK U.N.O.
- PROVIDE DEFLECTION TRACK @ ROOF TO WALL CONNECTION.
- BRACE TOP WALL TO NEAREST STEEL MEMBER AT 4'-0" O.C. MAXIMUM.
- SEAL ALL PENETRATIONS IN WALL.

7A (6")
WALL TYPE 7A:
- SAME AS WALL TYPE 7 EXCEPT FOR 18 GA - 6" METAL STUDS AT 16" O..C

WALL LEGEND: REFER TO OVER ALL FLOOR PLANS SHEET A.101 AND A.102 FOR WALL LEGEND NOTES.

1 (1'-2") / **1A** (1'-10")
- 1'-2" THICK CAST IN PLACE FORMED CONCRETE WALL.
- REFER TO STRUCTURAL SHEETS FOR REINFORCEMENT.
- WATER PROOFING MEMBRANE FULL HEIGHT OF WALL BELOW GRADE
- 2" RIDGED BOARD INSULATION FULL HEIGHT OF WALL BELOW GRADE.
- INTEGRATED WATER STOPS AT ALL POUR JOINTS WITH FOUNDATIONS.

WALL TYPE 1A:
- SAME AS WALL TYPE 1 EXCEPT 1'-10" THICKNESS.

2 (1'-2") / **2A** (1'-10")
- 4" BRICK VENEER
- 2 3/4" CAVITY WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM) AND AIR BARRIER.
- 8" THICK CAST IN PLACE FORMED CONCRETE WALL.
  - REFER TO STRUCTURAL SHEETS FOR REINFORCEMENT.
  - WATER PROOFING MEMBRANE FULL HEIGHT OF WALL BELOW GRADE
  - 2" RIDGED BOARD INSULATION FULL HEIGHT OF WALL BELOW GRADE / BRICK LEDGE.
  - INTEGRATED WATER STOPS AT ALL POUR JOINTS WITH FOUNDATIONS.

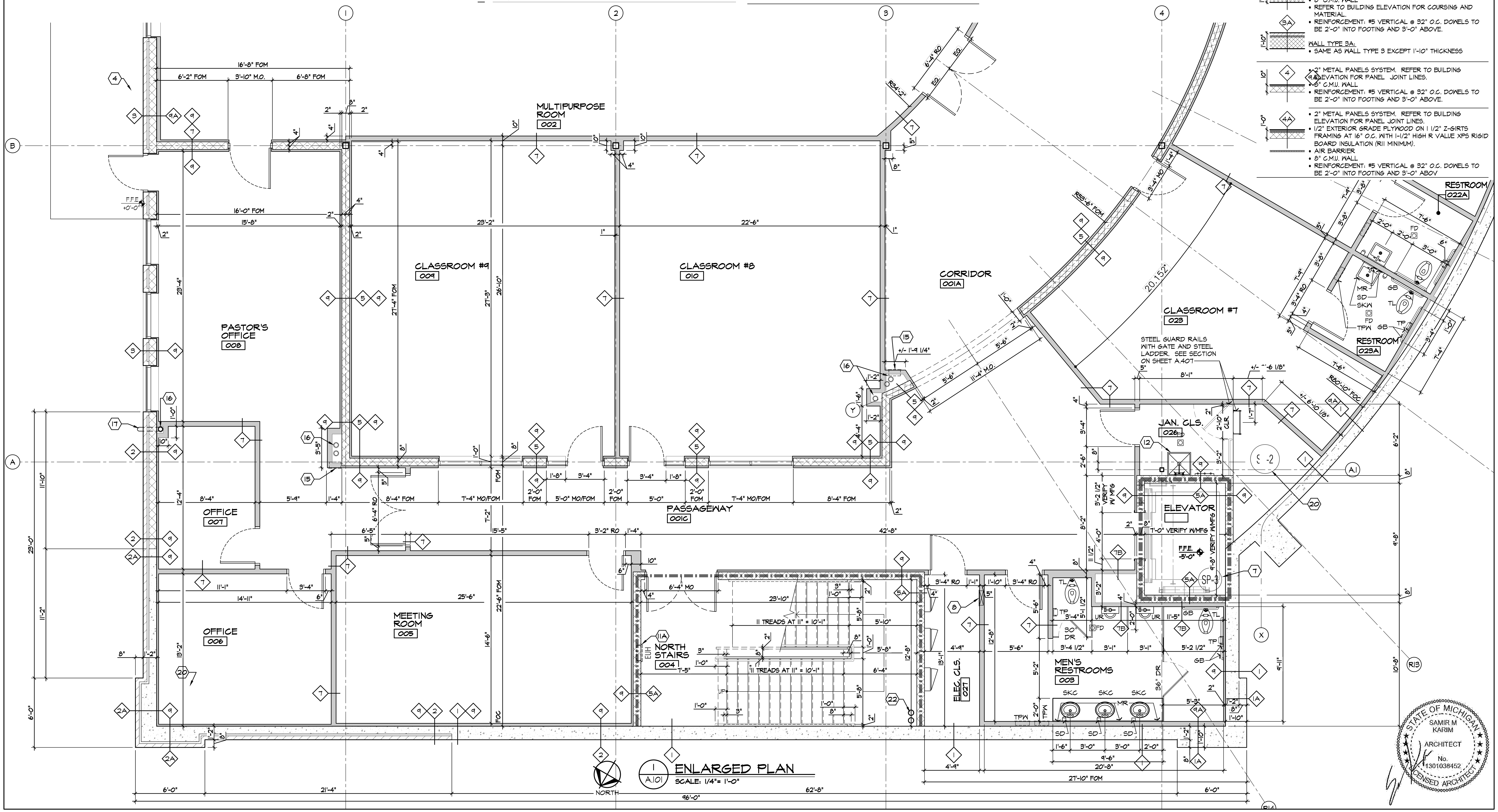
WALL TYPE 2A:
- SAME AS WALL TYPE 2 EXCEPT 1'-10" THICKNESS.

3 (1'-2") / **3A** (1'-10")
- 4" BRICK VENEER
- 2 3/4" CAVITY WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM) AND AIR BARRIER
- 8" C.M.U. WALL
- REFER TO BUILDING ELEVATION FOR COURSING AND MATERIAL.
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

WALL TYPE 3A:
- SAME AS WALL TYPE 3 EXCEPT 1'-10" THICKNESS

4 (10")
- 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

4A (1'-0")
- 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 1/2" EXTERIOR GRADE PLYWOOD ON 1 1/2" Z-GIRTS FRAMING AT 16" O.C. WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM).
- AIR BARRIER
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOV



1 / A.101 ENLARGED PLAN
SCALE: 1/4" = 1'-0"

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN
RESIDENTIAL
COMMERCIAL
INDUSTRIAL

G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

GAV ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
	DS	DS

SCALE : AS NOTED
FILE NAME : 19054_A502
JOB #: 19059
SHEET TITLE: ENLARGED FLOOR PLANS
SHEET #: A.502

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

RR ACCESSORIES ABBREVIATIONS:

GB	GRAB BAR
MR	MIRROR (ONE CONTIGUOUS PIECE)
SD	SOAP DISPENSER
SKC	COUNTER MOUNTED SINK (REFER TO PLUMBING DRAWINGS FOR TYPE)
SKW	WALL MOUNTED SINK (SEE PLUMBING DRAWINGS FOR TYPE)
SND	SANITARY NAPKIN DISPENSER
SNR	SANITARY NAPKIN RECEPTACLE
TPW	RECESSED COMBINATION PAPER TOWEL & WASTE RECEPTACLE
TL	TOILET (REFER TO PLUMBING DRAWINGS FOR TYPE)
TP	TOILET PAPER HOLDER
UR	URINAL

FLOOR PLAN SYMBOL LEGEND:(CONTINUED):

13 ROOF ACCESS LADDER. SEE DETAILS ON SHEET A.408

14 BARRIER FREE POWER ASSIST DOOR ACTUATOR.

15 FIRE EXTINGUISHER CABINET. FULLY RECESSED TRIM-LESS AND WITH FLUSH HANDLE.

16 ROOF DRAIN PIPE CHASE AND / OR LOCATION. COORDINATE WITH MECHANICAL.

17 ROOF OVERFLOW DRAIN NOZZLE. SEE DETAIL 3/A.408 AND COORDINATE WITH MECHANICAL.

18 HOT WATER HEATER. COORDINATE WITH MECHANICAL AND ELECTRICAL.

19 ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR SUPPLIER. SEE DETAIL 7/A.408

20 SUMP PUMP AND PIT FOR BUILDING FOUNDATION WALL PERIMETER DRAIN PIPE. REFER TO ELECTRICAL AND MECHANICAL AND COORDINATE WITH CONCRETE WORK. 30" DIA.x36" DEEP WITH GALVANIZED STEEL GRATING COVER TYPICAL.

21 WALK OFF MATT: REMOVABLE ALUMINUM WITH EXTERIOR GRADE CARPET TREADS, CUSHION FEET BETWEEN BOTH DOOR THRESHOLD AND ABOVE FLOOR, NOT RECESSED IN CONCRETE. COORDINATE WITH OWNER.

22 FIRE PROTECTION STAND PIPES. COORDINATE WITH MECHANICAL AND FIRE PROTECTION.

FLOOR PLAN SYMBOL LEGEND:

1 HOUR FIRE BARRIER WALL CONSTRUCTION

1 FLOOR PLANS KEY NOTE

5 WALL TYPE

101 DOOR SCHEDULE NUMBER

001 WINDOW TYPE SCHEDULE NUMBER

FLOOR PLANS NOTE LEGEND:

1 RECESSED KNOX BOX. COORDINATE WITH LOCAL FIRE DEPARTMENT.

2 FIRE DEPARTMENT CONNECTION (F.D.C.) AND WATER METER LOCATION. REFER TO MECHANICAL.

3 GAS METER, COORDINATE WITH CIVIL AND MECHANICAL.

4 HOSE BIB, REFER TO MECHANICAL

5 FIRE PROTECTION ASSEMBLY, REFER TO MECHANICAL.

6 ALARM PANEL & SPRINKLER SYSTEM STATUS PANEL

7 ELEVATOR SUMP PUMP AND PIT. COORDINATE & VERIFY LOCATION WITH ELEVATOR MANUFACTURER AND FOOTINGS AND ELECTRICAL / MECHANICAL. 24" DIA.x36" DEEP WITH GALVANIZED STEEL GRATING COVER TYPICAL.

8 ELEVATOR SUMP PUMP CONTROL PANEL. COORDINATE LOCATION WITH ELEVATOR MANUFACTURER.

9 ELEVATOR SHUT OFF BOX. COORDINATE WITH LOCAL FIRE DEPARTMENT.

10 SEMI RECESSED ELECTRIC WATER COOLER. COORDINATE MECHANICAL AND WITH MANUFACTURER SPECIFICATIONS.

11 UNIT HEATER - FLOOR (11) OR WALL 4" MAXIMUM RECESS (11A). PROVIDE COMPLETE TRIM /CLOSURE AROUND UNIT BY MANUFACTURE. REFER TO MECHANICAL.

12 SERVICE SINK WITH MOP RACK, REFER TO PLUMBING

WALL LEGEND (CONTINUED):

7B — 4"

WALL TYPE 7B:
- SAME AS WALL TYPE 7 OR 7A EXCEPT FOR GYPSUM BOARD ON ONE SIDE ONLY

8 — 4 1/2"

FIRE BARRIER SHAFT WALL: 5/8" FIRE RATED GYPSUM BOARD ON MINIMUM 18 GA. 4" DEEP METAL "C-H" SHAPED STUDS @ 16" O.C WITH 1" FIRE RATED GYPSUM LINER BOARD.
- UL DESIGN NO. U415 - ONE HOUR RATING
- FULL HEIGHT SOUND BATT INSULATION AS APPROVED BY THE UL DESIGN
- EXTEND TO UNDERSIDE OF ROOF DECK.
- PROVIDE DEFLECTION TRACK @ ROOF TO WALL CONNECTION.APPROVED BY THE UL DESIGN
- PROVIDE NER-258 DESIGN AT BASE OF SHAFT AT FLOOR OPENING..

9 — 2"
- 5/8" GYPSUM BOARD ON 20 GA. 1-1/2" METAL STUDS @ 16" O.C. EXTEND TO UNDERSIDE OF DECK
- EXTEND 6" ABOVE CEILING U.N.O.
- FULL HEIGHT R-6 BATT INSULATION (PROVIDED R-6 SEMI RIDGED INSULATION ABOVE CEILING WHERE GYPSUM BOARD IS ABSENT.

9A — 4"

WALL TYPE 9A:
- SAME AS WALL TYPE EXCEPT FOR 18 GA - 3-5/8" METAL STUDS @ 16" O.C
- FULL HEIGHT R-11 BATT INSULATION (PROVIDED R-11 SEMI RIDGED INSULATION ABOVE CEILING WHERE GYPSUM BOARD IS ABSENT.

WALL LEGEND (CONTINUED):

5 — 8"
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

5A — 8"

FIRE BARRIER WALL:
- UL DESIGN NO. U905 - ONE HOUR RATING
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

6
- COLUMN ENCLOSURE: 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 1/2" EXTERIOR GRADE PLYWOOD ON 18 GA - 4" COLD FORMED METAL FRAMING AT 12" O.C. PROVIDE #5 VERTICAL DOWELS @12" O.C. FOR TWO CMU COURSES.

7 — 4 1/2"

5/8" GYPSUM BOARD ON BOTH SIDES OF 18 GA - 3-5/8" METAL STUDS @ 16" O.C WITH:
- FULL HEIGHT SOUND BATT INSULATION.
- EXTEND TO UNDERSIDE OF ROOF DECK U.N.O.
- PROVIDE DEFLECTION TRACK @ ROOF TO WALL CONNECTION.
- BRACE TOP WALL TO NEAREST STEEL MEMBER AT 4'-0" O.C. MAXIMUM.
- SEAL ALL PENETRATIONS IN WALL.

7A — 6"

WALL TYPE 7A:
- SAME AS WALL TYPE 7 EXCEPT FOR 18 GA - 6" METAL STUDS AT 16" O..C

WALL LEGEND:

REFER TO OVER ALL FLOOR PLANS SHEET A.101 AND A.102 FOR WALL LEGEND NOTES.

1 — 1'-2"
- 1'-2" THICK CAST IN PLACE FORMED CONCRETE WALL.
- REFER TO STRUCTURAL SHEETS FOR REINFORCEMENT.
- WATER PROOFING MEMBRANE FULL HEIGHT OF WALL BELOW GRADE
- 2" RIDGED BOARD INSULATION FULL HEIGHT OF WALL BELOW GRADE.
- INTEGRATED WATER STOPS AT ALL POUR JOINTS WITH FOUNDATIONS.

1A — 1'-10"

WALL TYPE 1A:
- SAME AS WALL TYPE 1 EXCEPT 1'-10" THICKNESS.

2 — 1'-2"
- 4" BRICK VENEER
- 2 3/4" CAVITY WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM) AND AIR BARRIER.
- 8" THICK CAST IN PLACE FORMED CONCRETE WALL.
  - REFER TO STRUCTURAL SHEETS FOR REINFORCEMENT.
  - WATER PROOFING MEMBRANE FULL HEIGHT OF WALL BELOW GRADE
  - 2" RIDGED BOARD INSULATION FULL HEIGHT OF WALL BELOW GRADE / BRICK LEDGE.
  - INTEGRATED WATER STOPS AT ALL POUR JOINTS WITH FOUNDATIONS.

2A — 1'-10"

WALL TYPE 2A:
- SAME AS WALL TYPE 2 EXCEPT 1'-10" THICKNESS.

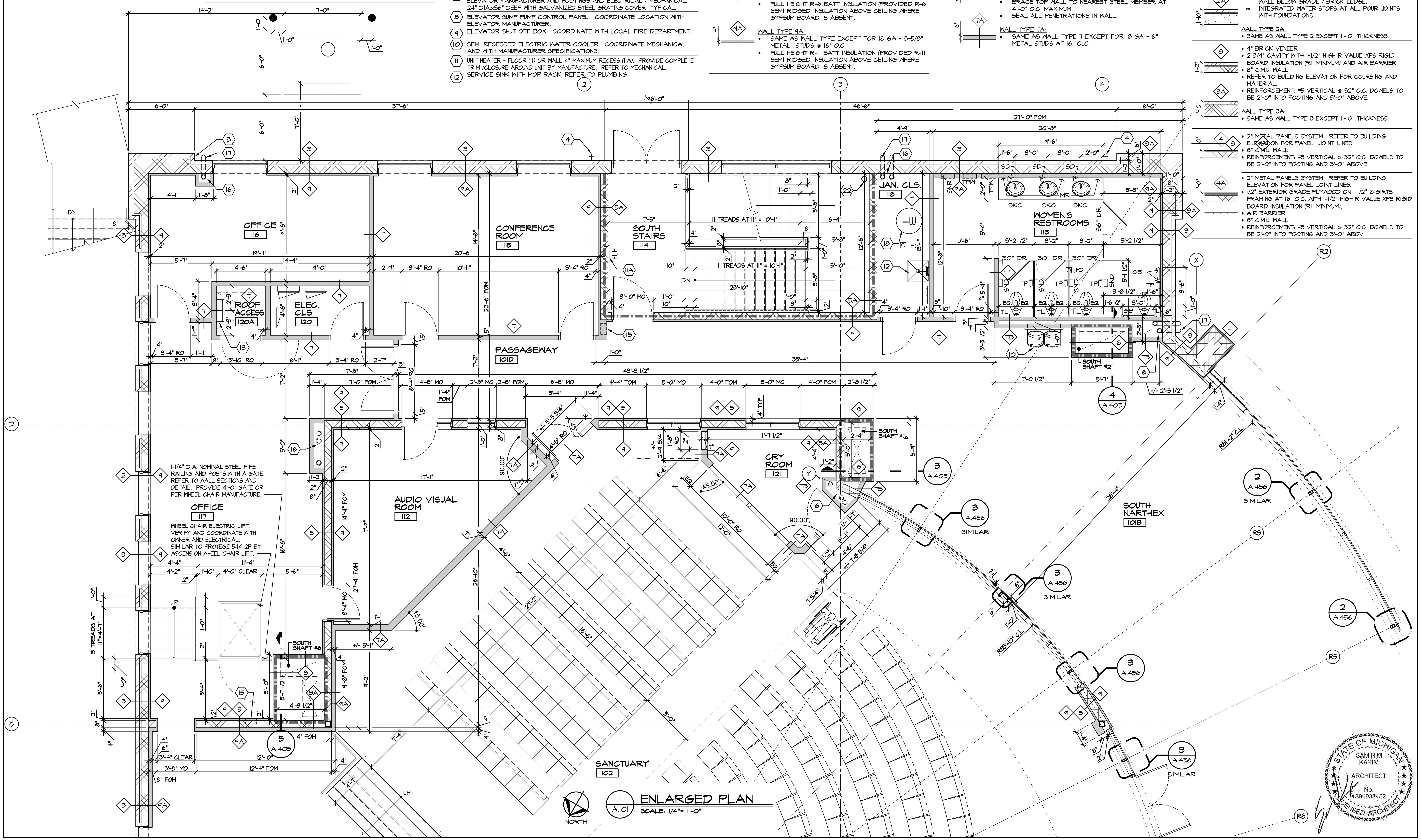
3 — 1'-2"
- 4" BRICK VENEER
- 2 3/4" CAVITY WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM) AND AIR BARRIER
- 8" C.M.U. WALL
- REFER TO BUILDING ELEVATION FOR COURSING AND MATERIAL.
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

3A — 1'-10"

WALL TYPE 3A:
- SAME AS WALL TYPE 3 EXCEPT 1'-10" THICKNESS

4 — 10"
- 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

4A — 1'-0"
- 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 1/2" EXTERIOR GRADE PLYWOOD ON 1 1/2" Z-GIRTS FRAMING AT 16" O.C. WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM).
- AIR BARRIER
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOV



1 ENLARGED PLAN
A.101 SCALE: 1/4" = 1'-0"

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

GAV ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

DRAWN:	DESIGNED:	CHECKED:
SSA	DG	DG

SCALE : AS NOTED

FILE NAME : 19059_A503

JOB #: 19059

SHEET TITLE
ENLARGED FLOOR PLANS

SHEET #
A.503

RR ACCESSORIES ABBREVIATIONS:

GB	GRAB BAR
MR	MIRROR (ONE CONTIGUOUS PIECE)
SD	SOAP DISPENSER
SKC	COUNTER MOUNTED SINK (REFER TO PLUMBING DRAWINGS FOR TYPE)
SKW	WALL MOUNTED SINK (SEE PLUMBING DRAWINGS FOR TYPE)
SND	SANITARY NAPKIN DISPENSER
SNR	SANITARY NAPKIN RECEPTACLE
TPW	RECESSED COMBINATION PAPER TOWEL & WASTE RECEPTACLE
TL	TOILET (REFER TO PLUMBING DRAWINGS FOR TYPE)
TP	TOILET PAPER HOLDER
UR	URINAL

FLOOR PLAN SYMBOL LEGEND:(CONTINUED):

12 SERVICE SINK WITH MOP RACK, REFER TO PLUMBING
13 ROOF ACCESS LADDER. SEE DETAILS ON SHEET A.408
14 BARRIER FREE POWER ASSIST DOOR ACTUATOR.
15 FIRE EXTINGUISHER CABINET. FULLY RECESSED TRIM-LESS AND WITH FLUSH HANDLE.
16 ROOF DRAIN PIPE CHASE AND / OR LOCATION. COORDINATE WITH MECHANICAL.
17 ROOF OVERFLOW DRAIN NOZZLE. SEE DETAIL 3/A.408 AND COORDINATE WITH MECHANICAL.
18 HOT WATER HEATER. COORDINATE WITH MECHANICAL AND ELECTRICAL.
19 ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR SUPPLIER. SEE DETAIL 7/A.408
20 SUMP PUMP AND PIT FOR BUILDING FOUNDATION WALL PERIMETER DRAIN PIPE. REFER TO ELECTRICAL AND MECHANICAL AND COORDINATE WITH CONCRETE WORK. 30" DIA.x36" DEEP WITH GALVANIZED STEEL GRATING COVER TYPICAL.
21 WALK OFF MATT: REMOVABLE ALUMINUM WITH EXTERIOR GRADE CARPET TREADS, CUSHION FEET BETWEEN BOTH DOOR THRESHOLD AND ABOVE FLOOR, NOT RECESSED IN CONCRETE. COORDINATE WITH OWNER.
22 FIRE PROTECTION STAND PIPES. COORDINATE WITH MECHANICAL AND FIRE PROTECTION.

FLOOR PLAN SYMBOL LEGEND:

1 HOUR FIRE BARRIER WALL CONSTRUCTION
1 FLOOR PLANS KEY NOTE
5 WALL TYPE
101 DOOR SCHEDULE NUMBER
001 WINDOW TYPE SCHEDULE NUMBER

FLOOR PLANS NOTE LEGEND:

1 RECESSED KNOX BOX. COORDINATE WITH LOCAL FIRE DEPARTMENT.
2 FIRE DEPARTMENT CONNECTION (F.D.C.) AND WATER METER LOCATION. REFER TO MECHANICAL.
3 GAS METER, COORDINATE WITH CIVIL AND MECHANICAL.
4 HOSE BIB, REFER TO MECHANICAL
5 FIRE PROTECTION ASSEMBLY, REFER TO MECHANICAL.
6 ALARM PANEL & SPRINKLER SYSTEM STATUS PANEL
7 ELEVATOR SUMP PUMP AND PIT. COORDINATE & VERIFY LOCATION WITH ELEVATOR MANUFACTURER AND FOOTINGS AND ELECTRICAL / MECHANICAL. 24" DIA.x36" DEEP WITH GALVANIZED STEEL GRATING COVER TYPICAL.
8 ELEVATOR SUMP PUMP CONTROL PANEL. COORDINATE LOCATION WITH ELEVATOR MANUFACTURER.
9 ELEVATOR SHUT OFF BOX. COORDINATE WITH LOCAL FIRE DEPARTMENT.
10 SEMI RECESSED ELECTRIC WATER COOLER. COORDINATE MECHANICAL AND WITH MANUFACTURER SPECIFICATIONS.
11 UNIT HEATER - FLOOR (11) OR WALL 4" MAXIMUM RECESS (11A). PROVIDE COMPLETE TRIM /CLOSURE AROUND UNIT BY MANUFACTURE. REFER TO MECHANICAL.

WALL LEGEND (CONTINUED):

7B — 4"
WALL TYPE 7B:
- SAME AS WALL TYPE 7 OR 7A EXCEPT FOR GYPSUM BOARD ON ONE SIDE ONLY

8 — 4 1/2"
FIRE BARRIER SHAFT WALL: 5/8" FIRE RATED GYPSUM BOARD ON MINIMUM 18 GA. 4" DEEP METAL "C-H" SHAPED STUDS @ 16" O.C WITH 1" FIRE RATED GYPSUM LINER BOARD.
- UL DESIGN NO. U415 - ONE HOUR RATING
- FULL HEIGHT SOUND BATT INSULATION AS APPROVED BY THE UL DESIGN
- EXTEND TO UNDERSIDE OF ROOF DECK.
- PROVIDE DEFLECTION TRACK @ ROOF TO WALL CONNECTION.APPROVED BY THE UL DESIGN
- PROVIDE NER-258 DESIGN AT BASE OF SHAFT AT FLOOR OPENING..

9 — 2"
- 5/8" GYPSUM BOARD ON 20 GA. 1-1/2" METAL STUDS @ 16" O.C. EXTEND TO UNDERSIDE OF DECK
- EXTEND 6" ABOVE CEILING U.N.O.
- FULL HEIGHT R-6 BATT INSULATION (PROVIDED R-6 SEMI RIDGED INSULATION ABOVE CEILING WHERE GYPSUM BOARD IS ABSENT.

9A — 4"
WALL TYPE 9A:
- SAME AS WALL TYPE EXCEPT FOR 18 GA - 3-5/8" METAL STUDS @ 16" O.C
- FULL HEIGHT R-11 BATT INSULATION (PROVIDED R-11 SEMI RIDGED INSULATION ABOVE CEILING WHERE GYPSUM BOARD IS ABSENT.

WALL LEGEND (CONTINUED):

5 — 8"
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

5A — 8"
FIRE BARRIER WALL:
- UL DESIGN NO. U905 - ONE HOUR RATING
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

6
- COLUMN ENCLOSURE: 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 1/2" EXTERIOR GRADE PLYWOOD ON 18 GA - 4" COLD FORMED METAL FRAMING AT 12" O.C. PROVIDE #5 VERTICAL DOWELS @12" O.C. FOR TWO CMU COURSES.

7 — 4 1/2"
5/8" GYPSUM BOARD ON BOTH SIDES OF 18 GA - 3-5/8" METAL STUDS @ 16" O.C WITH:
- FULL HEIGHT SOUND BATT INSULATION.
- EXTEND TO UNDERSIDE OF ROOF DECK U.N.O.
- PROVIDE DEFLECTION TRACK @ ROOF TO WALL CONNECTION.
- BRACE TOP WALL TO NEAREST STEEL MEMBER AT 4'-0" O.C. MAXIMUM.
- SEAL ALL PENETRATIONS IN WALL.

7A — 6"
WALL TYPE 7A:
- SAME AS WALL TYPE 7 EXCEPT FOR 18 GA - 6" METAL STUDS AT 16" O..C

WALL LEGEND: REFER TO OVER ALL FLOOR PLANS SHEET A.101 AND A.102 FOR WALL LEGEND NOTES.

1 — 1'-2"
- 1'-2" THICK CAST IN PLACE FORMED CONCRETE WALL.
- REFER TO STRUCTURAL SHEETS FOR REINFORCEMENT.
- WATER PROOFING MEMBRANE FULL HEIGHT OF WALL BELOW GRADE
- 2" RIDGED BOARD INSULATION FULL HEIGHT OF WALL BELOW GRADE.
- INTEGRATED WATER STOPS AT ALL POUR JOINTS WITH FOUNDATIONS.

1A — 1'-10"
WALL TYPE 1A:
- SAME AS WALL TYPE 1 EXCEPT 1'-10" THICKNESS.

2 — 1'-2"
- 4" BRICK VENEER
- 2 3/4" CAVITY WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM) AND AIR BARRIER.
- 8" THICK CAST IN PLACE FORMED CONCRETE WALL.
  - REFER TO STRUCTURAL SHEETS FOR REINFORCEMENT.
  - WATER PROOFING MEMBRANE FULL HEIGHT OF WALL BELOW GRADE
  - 2" RIDGED BOARD INSULATION FULL HEIGHT OF WALL BELOW GRADE / BRICK LEDGE.
  - INTEGRATED WATER STOPS AT ALL POUR JOINTS WITH FOUNDATIONS.

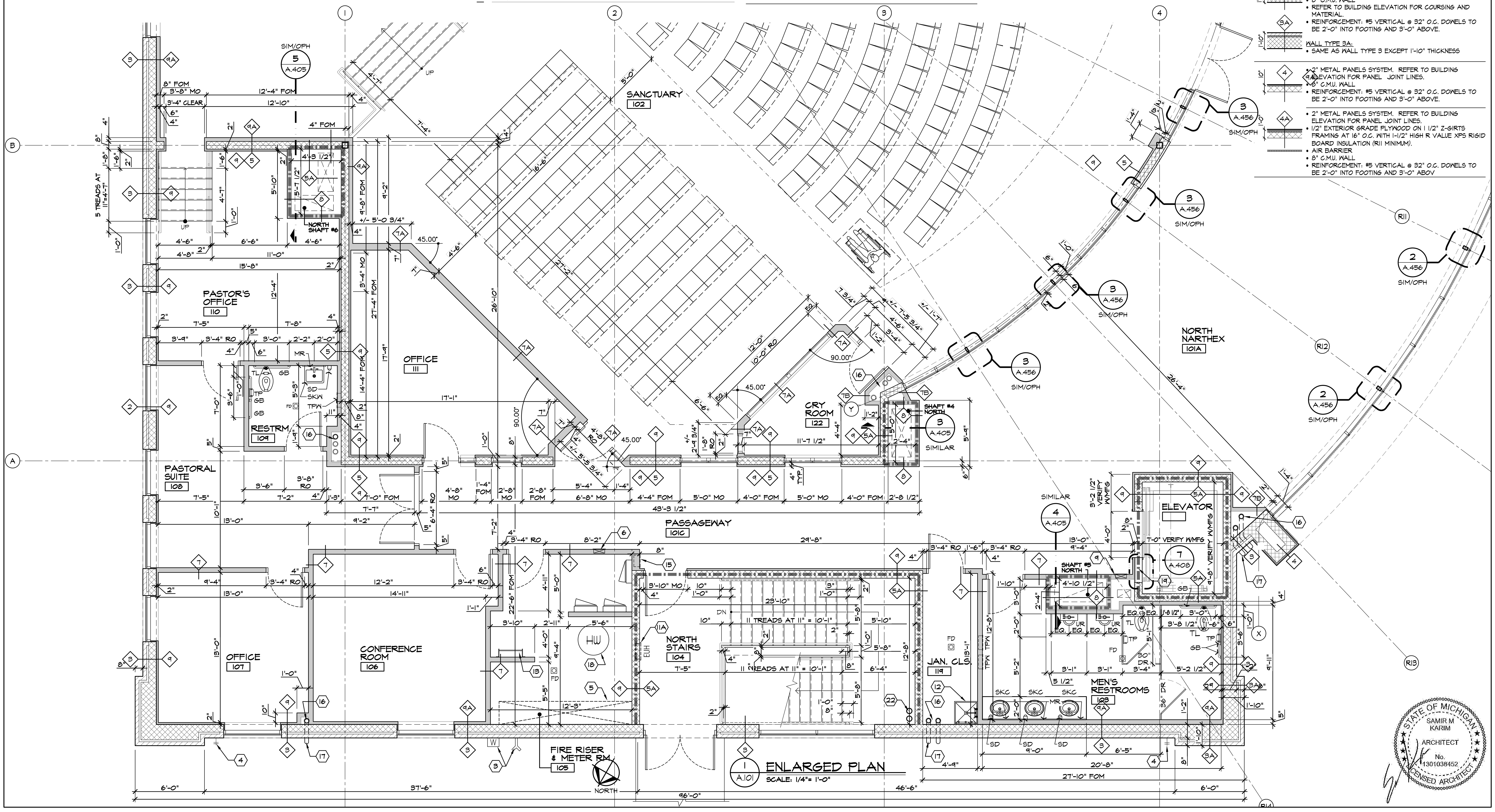
2A — 1'-10"
WALL TYPE 2A:
- SAME AS WALL TYPE 2 EXCEPT 1'-10" THICKNESS.

3 — 1'-2"
- 4" BRICK VENEER
- 2 3/4" CAVITY WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM) AND AIR BARRIER
- 8" C.M.U. WALL
- REFER TO BUILDING ELEVATION FOR COURSING AND MATERIAL.
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

3A — 1'-10"
WALL TYPE 3A:
- SAME AS WALL TYPE 3 EXCEPT 1'-10" THICKNESS

4 — 10"
- 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

4A — 1'-0"
- 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 1/2" EXTERIOR GRADE PLYWOOD ON 1 1/2" Z-GIRTS FRAMING AT 16" O.C. WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM).
- AIR BARRIER
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOV



1 / A.101 ENLARGED PLAN
SCALE: 1/4"= 1'-0"

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

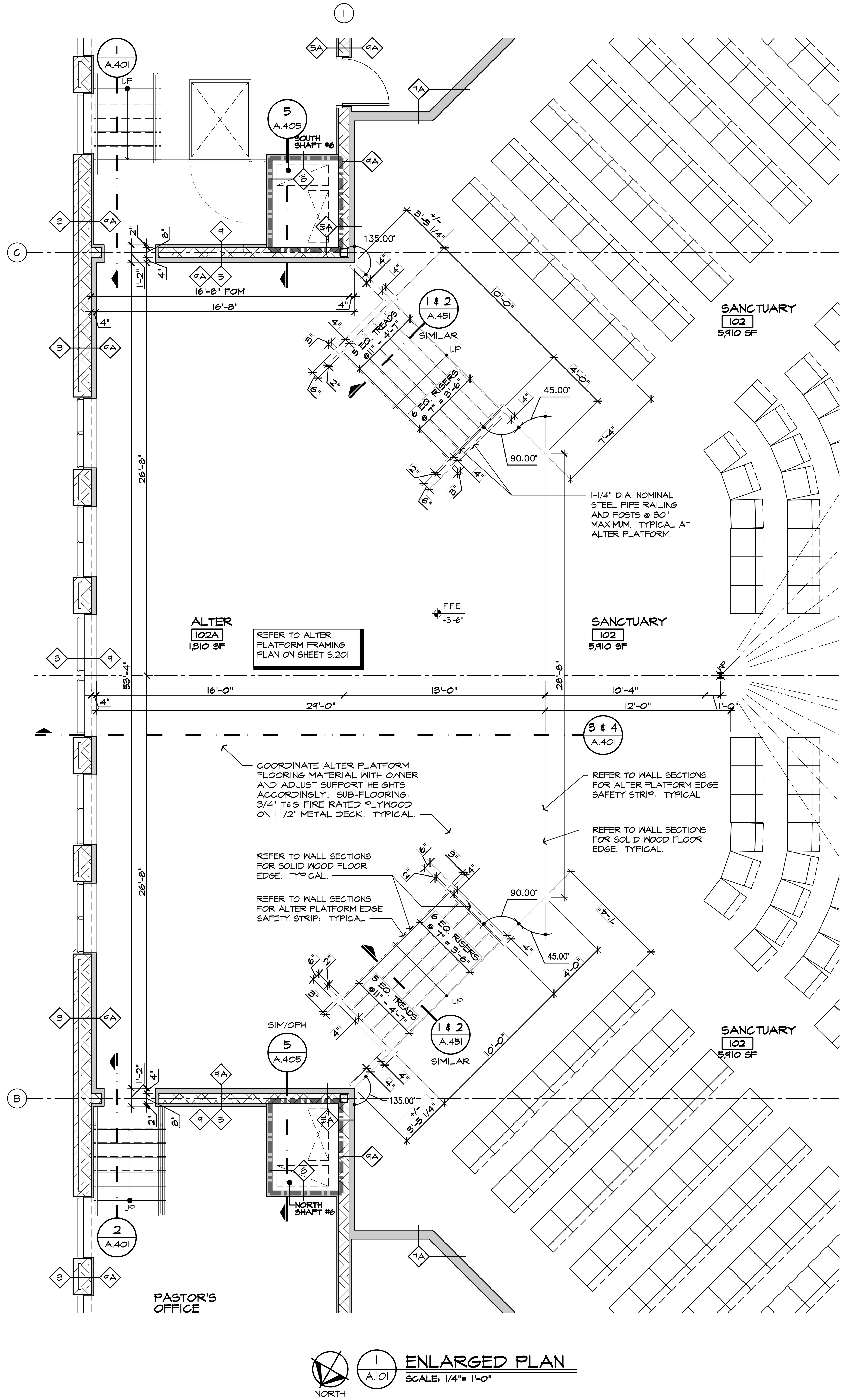
GAV ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
	DS	DS

SCALE : AS NOTED
FILE NAME : 19059_A504
JOB #: 19059
SHEET TITLE
ENLARGED FLOOR PLANS
SHEET #
A.504

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT



1 | A.101 ENLARGED PLAN

SCALE: 1/4"= 1'-0"

NORTH

WALL LEGEND NOTES:

1. PROVIDE 9 GA. LADDER TYPE HORIZONTAL JOINT REINFORCEMENT WITH CROSS WIRES @ 16" O.C. SPACED VERTICALLY FOR ALL CMU WALLS.
2. PROVIDE 9 GA LADDER TYPE HORIZONTAL JOINT REINFORCEMENT WITH CROSS WIRES @ 16" O.C. WITH ADJUSTABLE VENEER TIES AT 16" O.C. STAGGERED FOR ALL CMU WITH BRICK VENEER WALLS.
3. WEEP HOLES: PROVIDE ONE PIECE SINGLE-PLY FLASHING (MINIMUM OF 1 CMU COURSE WITH END DAMS) AND ONE PIECE METAL FLASHING WITH HEMMED DRIP EDGE. PROVIDE PARTIALLY OPEN HEAD JOINT WEEP HOLES @ 24" O.C. MINIMUM OF TWO HOLES OVER WINDOWS AND DOORS. GROUT AIR SPACE SOLID UNDER FLASHING. PROVIDE WASHED PEA STONE FOR PROPER DRAINAGE.
4. EXTEND ALL WALLS TO UNDER SIDE OF FLOOR / ROOF METAL DECK FOR SMOKE TIGHT CONSTRUCTION. CLOSE ALL OPENINGS WITH GROUT MATERIAL TO MEET CODE REQUIREMENTS FOR A SMOKE TIGHT CONSTRUCTION OR FIRE RATE CONSTRUCTION AS INDICATED. SEE PLANS FOR LOCATIONS OF SMOKE / FIRE WALLS.
5. GROUT ALL CMU WALLS SOLID AT RE-BARS AND FIRST TWO COURSES OVER EXISTING MASONRY OR FOUNDATIONS. DOWEL INTO EXISTING MASONRY.
6. PROVIDE A MASONRY CONTROL / EXPANSION JOINTS FOR ALL NEW WALLS OVER 20'-0" IN RUN OR MORE. MAXIMUM SPACING OF 25'-0"
7. PROVIDE CONTINUOUS 8"/12" BOND BEAM (B.B.) W/ (2) #5 BARS. VERTICAL WALL BARS TO CONTINUE THRU B.B. & HOOK TO B.B. STEEL FOR UPLIFT CONTINUITY. GROUT ONE COURSE ABOVE AND ONE BELOW B.B. PROVIDE METAL LATH OR WIRE SCREEN UNDER B.B. TO CONFINE GROUT. LAPPED B.B. MINIMUM OF 48" TO ACCOMMODATE ELEVATION CHANGES FOR THE CORRIDOR WALLS.
8. REFER TO BUILDING ELEVATIONS AND SECTIONS FOR COURSING AND OTHER MATERIALS.

FLOOR PLAN SYMBOL LEGEND:

- 1 HOUR FIRE BARRIER WALL CONSTRUCTION
- 1 FLOOR PLANS KEY NOTE
- 5 WALL TYPE
- 101 DOOR SCHEDULE NUMBER
- 001 WINDOW TYPE SCHEDULE NUMBER

FLOOR PLANS NOTE LEGEND:

1. RECESSED KNOX BOX. COORDINATE WITH LOCAL FIRE DEPARTMENT.
2. FIRE DEPARTMENT CONNECTION (F.D.C.) AND WATER METER LOCATION. REFER TO MECHANICAL.
3. GAS METER, COORDINATE WITH CIVIL AND MECHANICAL.
4. HOSE BIB, REFER TO MECHANICAL
5. FIRE PROTECTION ASSEMBLY, REFER TO MECHANICAL.
6. ALARM PANEL & SPRINKLER SYSTEM STATUS PANEL
7. ELEVATOR SUMP PUMP AND PIT. COORDINATE & VERIFY LOCATION WITH ELEVATOR MANUFACTURER AND FOOTINGS AND ELECTRICAL / MECHANICAL. 24" DIA.x36" DEEP WITH GALVANIZED STEEL GRATING COVER TYPICAL.
8. ELEVATOR SUMP PUMP CONTROL PANEL. COORDINATE LOCATION WITH ELEVATOR MANUFACTURER.
9. ELEVATOR SHUT OFF BOX. COORDINATE WITH LOCAL FIRE DEPARTMENT.
10. SEMI RECESSED ELECTRIC WATER COOLER. COORDINATE MECHANICAL AND WITH MANUFACTURER SPECIFICATIONS.
11. UNIT HEATER - FLOOR (11) OR WALL 4" MAXIMUM RECESS (11A). PROVIDE COMPLETE TRIM /CLOSURE AROUND UNIT BY MANUFACTURE. REFER TO MECHANICAL.
12. SERVICE SINK WITH MOP RACK, REFER TO PLUMBING
13. ROOF ACCESS LADDER. SEE DETAILS ON SHEET A.408
14. BARRIER FREE POWER ASSIST DOOR ACTUATOR.
15. FIRE EXTINGUISHER CABINET. FULLY RECESSED TRIM-LESS AND WITH FLUSH HANDLE.
16. ROOF DRAIN PIPE CHASE AND / OR LOCATION. COORDINATE WITH MECHANICAL.
17. ROOF OVERFLOW DRAIN NOZZLE. SEE DETAIL 3/A.408 AND COORDINATE WITH MECHANICAL.
18. HOT WATER HEATER. COORDINATE WITH MECHANICAL AND ELECTRICAL.
19. ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR SUPPLIER. SEE DETAIL 7/A.408
20. SUMP PUMP AND PIT FOR BUILDING FOUNDATION WALL PERIMETER DRAIN PIPE. REFER TO ELECTRICAL AND MECHANICAL AND COORDINATE WITH CONCRETE WORK. 30" DIA.x36" DEEP WITH GALVANIZED STEEL GRATING COVER TYPICAL.
21. WALK OFF MATT: REMOVABLE ALUMINUM WITH EXTERIOR GRADE CARPET TREADS, CUSHION FEET BETWEEN BOTH DOOR THRESHOLD AND ABOVE FLOOR, NOT RECESSED IN CONCRETE. COORDINATE WITH OWNER.
22. FIRE PROTECTION STAND PIPES. COORDINATE WITH MECHANICAL AND FIRE PROTECTION.

WALL LEGEND:

1 (1'-2")
- 1'-2" THICK CAST IN PLACE FORMED CONCRETE WALL.
- REFER TO STRUCTURAL SHEETS FOR REINFORCEMENT.
- WATER PROOFING MEMBRANE FULL HEIGHT OF WALL BELOW GRADE
- 2" RIDGED BOARD INSULATION FULL HEIGHT OF WALL BELOW GRADE.
- INTEGRATED WATER STOPS AT ALL POUR JOINTS WITH FOUNDATIONS.

1A (1'-10")

WALL TYPE 1A:
- SAME AS WALL TYPE 1 EXCEPT 1'-10" THICKNESS.

2 (1'-2")
- 4" BRICK VENEER
- 2 3/4" CAVITY WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM) AND AIR BARRIER.
- 8" THICK CAST IN PLACE FORMED CONCRETE WALL.
  - REFER TO STRUCTURAL SHEETS FOR REINFORCEMENT.
  - WATER PROOFING MEMBRANE FULL HEIGHT OF WALL BELOW GRADE
  - 2" RIDGED BOARD INSULATION FULL HEIGHT OF WALL BELOW GRADE / BRICK LEDGE.
  - INTEGRATED WATER STOPS AT ALL POUR JOINTS WITH FOUNDATIONS.

2A (1'-10")

WALL TYPE 2A:
- SAME AS WALL TYPE 2 EXCEPT 1'-10" THICKNESS.

3 (1'-2")
- 4" BRICK VENEER
- 2 3/4" CAVITY WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM) AND AIR BARRIER
- 8" C.M.U. WALL
- REFER TO BUILDING ELEVATION FOR COURSING AND MATERIAL.
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

3A (1'-10")

WALL TYPE 3A:
- SAME AS WALL TYPE 3 EXCEPT 1'-10" THICKNESS

4 (10")
- 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

4A (1'-0")
- 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 1/2" EXTERIOR GRADE PLYWOOD ON 1 1/2" Z-GIRTS FRAMING AT 16" O.C. WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM).
- AIR BARRIER
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOV

5 (8")
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

5A (8")

FIRE BARRIER WALL:
- UL DESIGN NO. U905 - ONE HOUR RATING
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

6
- COLUMN ENCLOSURE: 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 1/2" EXTERIOR GRADE PLYWOOD ON 18 GA - 4" COLD FORMED METAL FRAMING AT 12" O.C. PROVIDE #5 VERTICAL DOWELS @12" O.C. FOR TWO CMU COURSES.

7 (4 1/2")

5/8" GYPSUM BOARD ON BOTH SIDES OF 18 GA - 3-5/8" METAL STUDS @ 16" O.C WITH:
- FULL HEIGHT SOUND BATT INSULATION.
- EXTEND TO UNDERSIDE OF ROOF DECK U.N.O.
- PROVIDE DEFLECTION TRACK @ ROOF TO WALL CONNECTION.
- BRACE TOP WALL TO NEAREST STEEL MEMBER AT 4'-0" O.C. MAXIMUM.
- SEAL ALL PENETRATIONS IN WALL.

7A (6")

WALL TYPE 7A:
- SAME AS WALL TYPE 7 EXCEPT FOR 18 GA - 6" METAL STUDS AT 16" O..C

7B (4")

WALL TYPE 7B:
- SAME AS WALL TYPE 7 OR 7A EXCEPT FOR GYPSUM BOARD ON ONE SIDE ONLY

8 (4 1/2")

FIRE BARRIER SHAFT WALL: 5/8" FIRE RATED GYPSUM BOARD ON MINIMUM 18 GA. 4" DEEP METAL "C-H" SHAPED STUDS @ 16" O.C WITH 1" FIRE RATED GYPSUM LINER BOARD.
- UL DESIGN NO. U415 - ONE HOUR RATING
- FULL HEIGHT SOUND BATT INSULATION AS APPROVED BY THE UL DESIGN
- EXTEND TO UNDERSIDE OF ROOF DECK.
- PROVIDE DEFLECTION TRACK @ ROOF TO WALL CONNECTION.APPROVED BY THE UL DESIGN
- PROVIDE NER-258 DESIGN AT BASE OF SHAFT AT FLOOR OPENING..

9 (2")
- 5/8" GYPSUM BOARD ON 20 GA. 1-1/2" METAL STUDS @ 16" O.C. EXTEND TO UNDERSIDE OF DECK
- EXTEND 6" ABOVE CEILING U.N.O.
- FULL HEIGHT R-6 BATT INSULATION (PROVIDED R-6 SEMI RIDGED INSULATION ABOVE CEILING WHERE GYPSUM BOARD IS ABSENT.

9A (4")

WALL TYPE 9A:
- SAME AS WALL TYPE EXCEPT FOR 18 GA - 3-5/8" METAL STUDS @ 16" O.C
- FULL HEIGHT R-11 BATT INSULATION (PROVIDED R-11 SEMI RIDGED INSULATION ABOVE CEILING WHERE GYPSUM BOARD IS ABSENT.

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

DRAWN:	DESIGNED:	CHECKED:
	DG	DG

SCALE : AS NOTED

FILE NAME : 19059_A505

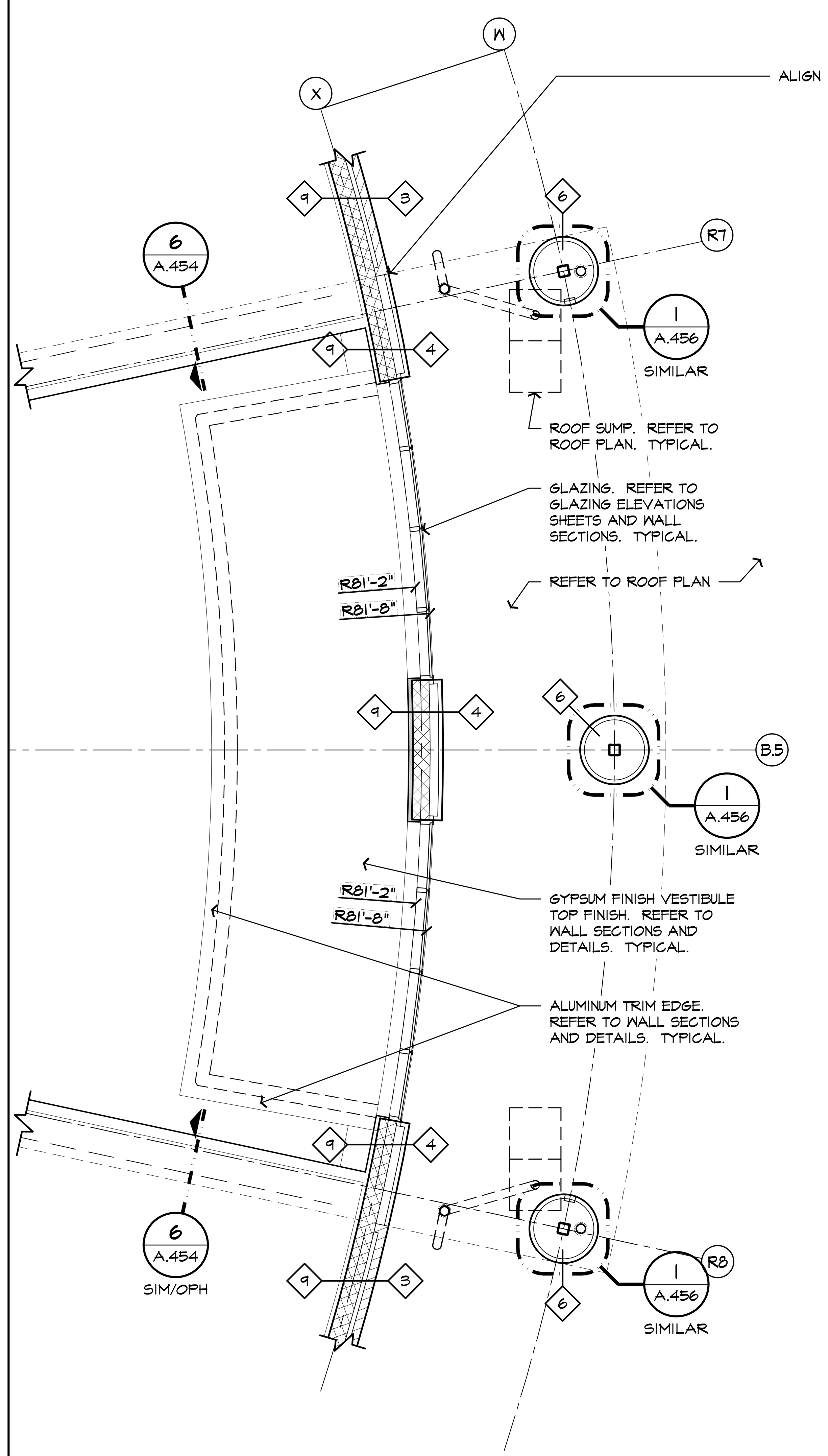
JOB #: 19059

SHEET TITLE

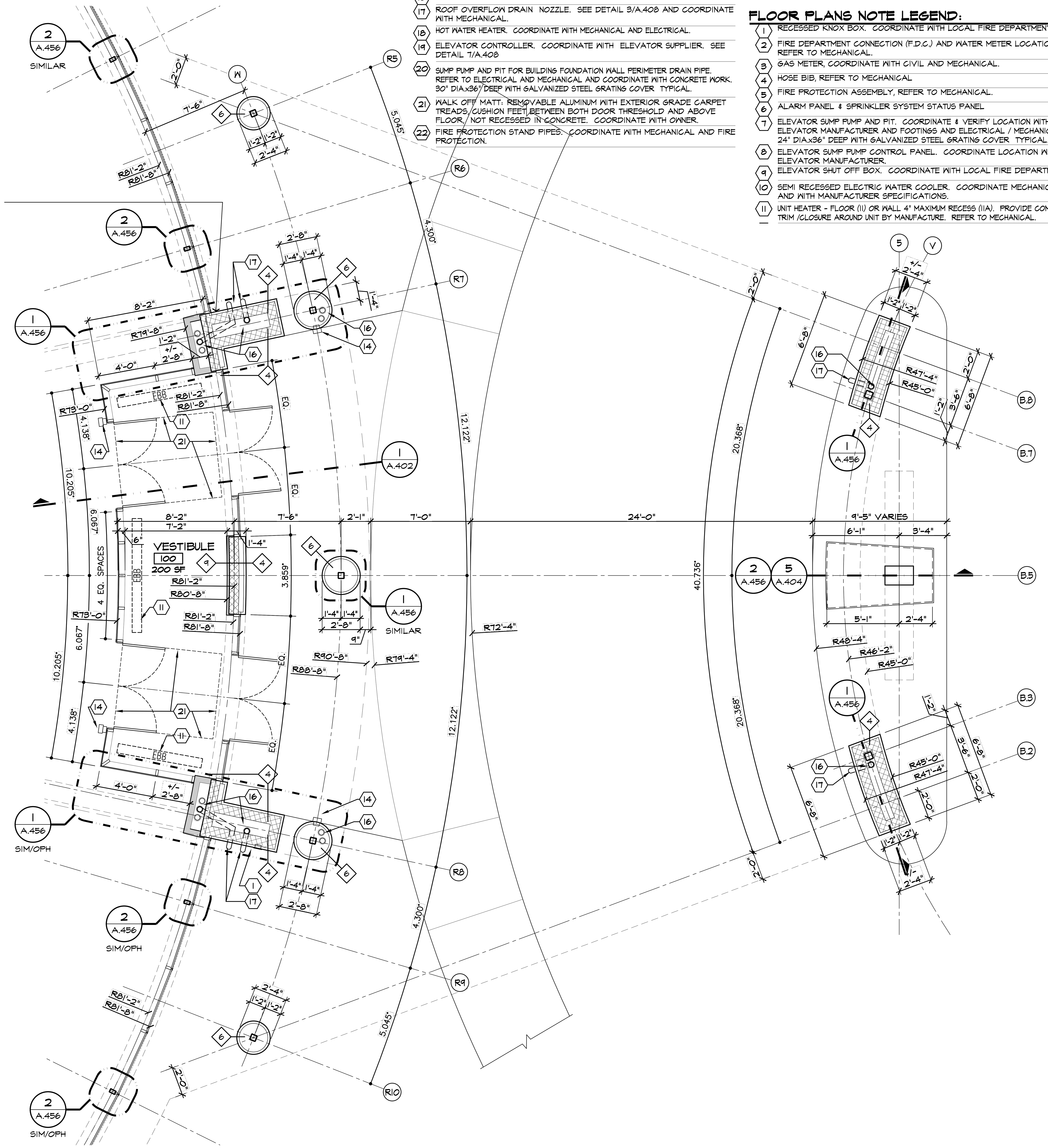
ENLARGED FLOOR PLANS

SHEET #

A.505



2 ENLARGED PLAN (A.101)
SCALE: 1/4"= 1'-0"



1 ENLARGED PLAN (A.101)
SCALE: 1/4"= 1'-0"

FLOOR PLAN SYMBOL LEGEND:(CONTINUED):

12. SERVICE SINK WITH MOP RACK, REFER TO PLUMBING
13. ROOF ACCESS LADDER. SEE DETAILS ON SHEET A.408
14. BARRIER FREE POWER ASSIST DOOR ACTUATOR.
15. FIRE EXTINGUISHER CABINET. FULLY RECESSED TRIM-LESS AND WITH FLUSH HANDLE.
16. ROOF DRAIN PIPE CHASE AND / OR LOCATION. COORDINATE WITH MECHANICAL.
17. ROOF OVERFLOW DRAIN NOZZLE. SEE DETAIL 3/A.408 AND COORDINATE WITH MECHANICAL.
18. HOT WATER HEATER. COORDINATE WITH MECHANICAL AND ELECTRICAL.
19. ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR SUPPLIER. SEE DETAIL 7/A.408
20. SUMP PUMP AND PIT FOR BUILDING FOUNDATION WALL PERIMETER DRAIN PIPE. REFER TO ELECTRICAL AND MECHANICAL AND COORDINATE WITH CONCRETE WORK. 30" DIA.x36" DEEP WITH GALVANIZED STEEL GRATING COVER TYPICAL.
21. WALK OFF MATT: REMOVABLE ALUMINUM WITH EXTERIOR GRADE CARPET TREADS, CUSHION FEET BETWEEN BOTH DOOR THRESHOLD AND ABOVE FLOOR, NOT RECESSED IN CONCRETE. COORDINATE WITH OWNER.
22. FIRE PROTECTION STAND PIPES. COORDINATE WITH MECHANICAL AND FIRE PROTECTION.

FLOOR PLAN SYMBOL LEGEND:

- 1 HOUR FIRE BARRIER WALL CONSTRUCTION
- (1) FLOOR PLANS KEY NOTE
- (5) WALL TYPE
- (101) DOOR SCHEDULE NUMBER
- (001) WINDOW TYPE SCHEDULE NUMBER

FLOOR PLANS NOTE LEGEND:

1. RECESSED KNOX BOX. COORDINATE WITH LOCAL FIRE DEPARTMENT.
2. FIRE DEPARTMENT CONNECTION (F.D.C.) AND WATER METER LOCATION. REFER TO MECHANICAL.
3. GAS METER, COORDINATE WITH CIVIL AND MECHANICAL.
4. HOSE BIB, REFER TO MECHANICAL
5. FIRE PROTECTION ASSEMBLY, REFER TO MECHANICAL.
6. ALARM PANEL & SPRINKLER SYSTEM STATUS PANEL
7. ELEVATOR SUMP PUMP AND PIT. COORDINATE & VERIFY LOCATION WITH ELEVATOR MANUFACTURER AND FOOTINGS AND ELECTRICAL / MECHANICAL. 24" DIA.x36" DEEP WITH GALVANIZED STEEL GRATING COVER TYPICAL.
8. ELEVATOR SUMP PUMP CONTROL PANEL. COORDINATE LOCATION WITH ELEVATOR MANUFACTURER.
9. ELEVATOR SHUT OFF BOX. COORDINATE WITH LOCAL FIRE DEPARTMENT.
10. SEMI RECESSED ELECTRIC WATER COOLER. COORDINATE MECHANICAL AND WITH MANUFACTURER SPECIFICATIONS.
11. UNIT HEATER - FLOOR (11) OR WALL 4" MAXIMUM RECESS (11A). PROVIDE COMPLETE TRIM /CLOSURE AROUND UNIT BY MANUFACTURE. REFER TO MECHANICAL.

WALL LEGEND:
REFER TO OVER ALL FLOOR PLANS SHEET A.101 AND A.102 FOR WALL LEGEND NOTES.

1 (1'-2")
- 1'-2" THICK CAST IN PLACE FORMED CONCRETE WALL.
- REFER TO STRUCTURAL SHEETS FOR REINFORCEMENT.
- WATER PROOFING MEMBRANE FULL HEIGHT OF WALL BELOW GRADE
- 2" RIDGED BOARD INSULATION FULL HEIGHT OF WALL BELOW GRADE.
- INTEGRATED WATER STOPS AT ALL POUR JOINTS WITH FOUNDATIONS.

1A (1'-10")
WALL TYPE 1A:
- SAME AS WALL TYPE 1 EXCEPT 1'-10" THICKNESS.

2 (1'-2")
- 4" BRICK VENEER
- 2 3/4" CAVITY WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM) AND AIR BARRIER.
- 8" THICK CAST IN PLACE FORMED CONCRETE WALL.
  - REFER TO STRUCTURAL SHEETS FOR REINFORCEMENT.
  - WATER PROOFING MEMBRANE FULL HEIGHT OF WALL BELOW GRADE
  - 2" RIDGED BOARD INSULATION FULL HEIGHT OF WALL BELOW GRADE / BRICK LEDGE.
  - INTEGRATED WATER STOPS AT ALL POUR JOINTS WITH FOUNDATIONS.

2A (1'-10")
WALL TYPE 2A:
- SAME AS WALL TYPE 2 EXCEPT 1'-10" THICKNESS.

3 (1'-2")
- 4" BRICK VENEER
- 2 3/4" CAVITY WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM) AND AIR BARRIER
- 8" C.M.U. WALL
- REFER TO BUILDING ELEVATION FOR COURSING AND MATERIAL.
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

3A (1'-10")
WALL TYPE 3A:
- SAME AS WALL TYPE 3 EXCEPT 1'-10" THICKNESS

4 (10")
- 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

4A (1'-0")
- 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 1/2" EXTERIOR GRADE PLYWOOD ON 1 1/2" Z-GIRTS FRAMING AT 16" O.C. WITH 1-1/2" HIGH R VALUE XPS RIGID BOARD INSULATION (R11 MINIMUM).
- AIR BARRIER
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOV

5 (8")
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

5A (8")
FIRE BARRIER WALL:
- UL DESIGN NO. U905 - ONE HOUR RATING
- 8" C.M.U. WALL
- REINFORCEMENT: #5 VERTICAL @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.

6
- COLUMN ENCLOSURE: 2" METAL PANELS SYSTEM. REFER TO BUILDING ELEVATION FOR PANEL JOINT LINES.
- 1/2" EXTERIOR GRADE PLYWOOD ON 18 GA - 4" COLD FORMED METAL FRAMING AT 12" O.C. PROVIDE #5 VERTICAL DOWELS @12" O.C. FOR TWO CMU COURSES.

7 (4 1/2")
5/8" GYPSUM BOARD ON BOTH SIDES OF 18 GA - 3-5/8" METAL STUDS @ 16" O.C WITH:
- FULL HEIGHT SOUND BATT INSULATION.
- EXTEND TO UNDERSIDE OF ROOF DECK U.N.O.
- PROVIDE DEFLECTION TRACK @ ROOF TO WALL CONNECTION.
- BRACE TOP WALL TO NEAREST STEEL MEMBER AT 4'-0" O.C. MAXIMUM.
- SEAL ALL PENETRATIONS IN WALL.

7A (6")
WALL TYPE 7A:
- SAME AS WALL TYPE 7 EXCEPT FOR 18 GA - 6" METAL STUDS AT 16" O..C

7B (4")
WALL TYPE 7B:
- SAME AS WALL TYPE 7 OR 7A EXCEPT FOR GYPSUM BOARD ON ONE SIDE ONLY

8 (4 1/2")
FIRE BARRIER SHAFT WALL: 5/8" FIRE RATED GYPSUM BOARD ON MINIMUM 18 GA. 4" DEEP METAL "C-H" SHAPED STUDS @ 16" O.C WITH 1" FIRE RATED GYPSUM LINER BOARD.
- UL DESIGN NO. U415 - ONE HOUR RATING
- FULL HEIGHT SOUND BATT INSULATION AS APPROVED BY THE UL DESIGN
- EXTEND TO UNDERSIDE OF ROOF DECK.
- PROVIDE DEFLECTION TRACK @ ROOF TO WALL CONNECTION.APPROVED BY THE UL DESIGN
- PROVIDE NER-258 DESIGN AT BASE OF SHAFT AT FLOOR OPENING..

9 (2")
- 5/8" GYPSUM BOARD ON 20 GA. 1-1/2" METAL STUDS @ 16" O.C. EXTEND TO UNDERSIDE OF DECK
- EXTEND 6" ABOVE CEILING U.N.O.
- FULL HEIGHT R-6 BATT INSULATION (PROVIDED R-6 SEMI RIDGED INSULATION ABOVE CEILING WHERE GYPSUM BOARD IS ABSENT.

9A (4")
WALL TYPE 9A:
- SAME AS WALL TYPE EXCEPT FOR 18 GA - 3-5/8" METAL STUDS @ 16" O.C
- FULL HEIGHT R-11 BATT INSULATION (PROVIDED R-11 SEMI RIDGED INSULATION ABOVE CEILING WHERE GYPSUM BOARD IS ABSENT.

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

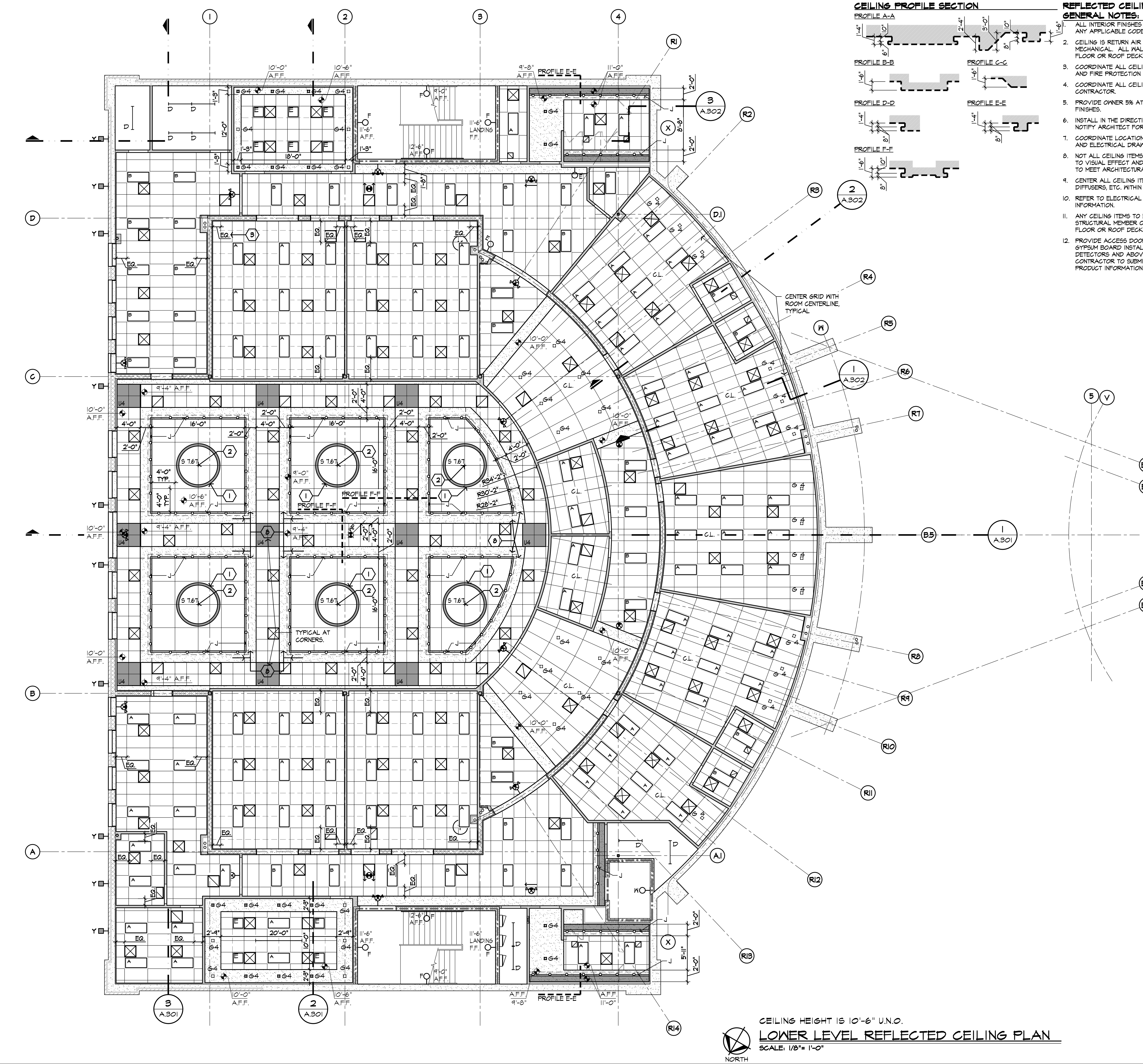
ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN
RESIDENTIAL
COMMERCIAL
INDUSTRIAL
G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM
ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
	DG	DG

SCALE : AS NOTED
FILE NAME : 19059_A506
JOB #: 19059
SHEET TITLE
ENLARGED FLOOR PLANS
SHEET #
A.506



LOWER LEVEL REFLECTED CEILING PLAN

SCALE: 1/8"= 1'-0"

CEILING PROFILE SECTION

PROFILE A-A
PROFILE B-B
PROFILE C-C
PROFILE D-D
PROFILE E-E
PROFILE F-F

REFLECTED CEILING PLANS GENERAL NOTES:

1. ALL INTERIOR FINISHES SHALL COMPLY WITH THE 2015 MBC AND ANY APPLICABLE CODES.
2. CEILING IS RETURN AIR PLENUM IN SOME ROOMS PER MECHANICAL. ALL WALLS TO BE EXTENDED TO UNDERSIDE OF FLOOR OR ROOF DECK AND SEALED..
3. COORDINATE ALL CEILING HEIGHT WITH MECHANICAL, ELECTRICAL AND FIRE PROTECTION DRAWINGS AND CONTRACTORS.
4. COORDINATE ALL CEILING HEIGHTS WITH WINDOW SIZE AND CONTRACTOR.
5. PROVIDE OWNER 5% ATTIC STOCK OF CEILING SYSTEM AND FINISHES.
6. INSTALL IN THE DIRECTION AND SPACING SHOWN ON THESE PLANS. NOTIFY ARCHITECT FOR CONFLICTS..
7. COORDINATE LOCATION OF ALL CEILING ITEMS WITH MECHANICAL AND ELECTRICAL DRAWINGS.
8. NOT ALL CEILING ITEMS ARE SHOWN. ITEMS SHOWN ARE CRITICAL TO VISUAL EFFECT AND REQUIRE COORDINATION AMONG TRADES TO MEET ARCHITECTURAL CRITERIA.
9. CENTER ALL CEILING ITEMS, RECESSED LIGHT FIXTURES, DIFFUSERS, ETC. WITHIN CEILING TILE UNLESS SHOWN OTHERWISE.
10. REFER TO ELECTRICAL AND MECHANICAL FOR ADDITIONAL INFORMATION.
11. ANY CEILING ITEMS TO BE SUPPORTED / HUNG FROM A STRUCTURAL MEMBER OR STEEL UNI-STRUTS AND NOT FROM FLOOR OR ROOF DECKING MATERIAL.
12. PROVIDE ACCESS DOORS WITH RECESSED FRONT PANEL FOR GYPSUM BOARD INSTALLATIONS AS REQUIRED FOR DUCT DETECTORS AND ABOVE CEILING JUNCTION BOXES. CONTRACTOR TO SUBMIT CEILING ACCESS DOOR PLAN AND PRODUCT INFORMATION TO ARCHITECT FOR APPROVAL.

CEILING LEGEND:

ACT-1:
2' X 4' LAY-IN ACOUSTICAL TILE CEILING

ACT-2:
2' X 4' LAY-IN SCORED ACOUSTICAL TILE CEILING

ACT-3:
4' X 4' WOOD LAMINATED AND PERFORATED ACOUSTICAL CEILING WITH CONCEALED SUSPENSION GRID: ARMSTRONG WOODWORKS TEGULAR WITH W4 PERFORATION

ACT-4:
RADIAL ACOUSTICAL TILE CEILING SUSPENDED SYSTEM: ARMSTRONG OPTIMA RADIAL.

ACP-1:
ACOUSTICAL PANEL ON METAL FURRING. 1" THICK WITH CUSTOM SHAPE AS DEPICTED: ARMSTRONG FELTWORKS ACOUSTICAL PANEL

INTERIOR CEILINGS: GYPSUM CEILING ON METAL SUSPENSION SYSTEM - 1/2" GYPSUM BOARD ON 18 GA - 3 5/8" U.N.O. (AND AS NOTED ON SECTIONS / DETAILS) METAL FRAMING AT 12" O.C., TYPICAL. REFER TO SIMILAR DETAILS.
EXTERIOR CEILINGS: DEFS ON 5/8" EXTERIOR GRADE SHEATHING CEILING SYSTEM ON COLD FORMED METAL FRAMING. REFER TO DETAILS.

A/B — 2'x4' LED LIGHT FIXTURE - OFFICES (SHADE = NIGHT LIGHT)

C — DECORATIVE 8' LONG CEILING SUSPENDED LED LIGHT FIXTURE

D — 4' LED LIGHT FIXTURE

E — 2'x2' LED LIGHT FIXTURE (SHADE = NIGHT LIGHT)

F — INTERIOR WALL MOUNTED DECORATIVE LIGHT FIXTURE

G — INTERIOR SQUARE CEILING RECESSED LED LIGHT FIXTURE WITH TRIM-LESS LESS OPTION FOR DRYWALL OR SUSPENDED CEILING. NUMBER INDICATES SIZE IN INCHES.

H — EXTERIOR ROUND CEILING RECESSED LED LIGHT FIXTURE. NUMBER INDICATES SIZE IN INCHES.

J — CONTINUOUS LED COVE LIGHT FIXTURE

K — CONTINUOUS LED COVE LIGHT FIXTURE WITH TRIM-LESS LESS OPTION FOR DRYWALL OR SUSPENDED CEILING.

R — MICRO LED TRIM-LESS DOWN LIGHT 1 1/4" x 2 1/2". REFER TO ENLARGED DETAIL.

S4 — DECORATIVE CEILING SUSPENDED LED LIGHT FIXTURE. NUMBER INDICATES FIXTURE DIAMETER SIZE IN FEET.

T4 — 4"x4" SQUARE CEILING SUSPENDED LED LIGHT FIXTURE. NUMBER INDICATES FIXTURE SIZE IN FEET.

W — INTERIOR WALL MOUNTED LED LIGHT FIXTURE

U4 — SUSPENDED CEILING LED LIGHT PANEL. NUMBER INDICATES FIXTURE SIZE IN FEET.

Y — EXTERIOR WALL MOUNTED LIGHT FIXTURE

Z — EXTERIOR WALL MOUNTED LIGHT FIXTURE

WALL MOUNTED COMBINATION EXIT SIGN / EMERGENCY LIGHT FIXTURE

CEILING MOUNTED EMERGENCY EXIT LIGHT FIXTURE

WALL MOUNTED EMERGENCY LIGHT FIXTURE

WALL MOUNTED EXTERIOR EMERGENCY LIGHT FIXTURE

SUPPLY DIFFUSERS

RETURN AIR VENTS

REFLECTED CEILING PLANS NOTE LEGEND:

1. BOTTOM OF FIXTURE AT 9'-0", TYPICAL FOR "S" TYPE FIXTURES.
2. CENTER FIXTURE WITH CEILING GRID INTERSECTION.
3. CENTER GRID EQUALLY WITH A ROOM, TYPICAL.
4. BOTTOM OF FIXTURE AT 16'-0", TYPICAL FOR "T" TYPE FIXTURES.
5. BOTTOM OF FIXTURE AT 21'-0", TYPICAL FOR "T4" TYPE FIXTURES.
6. BOTTOM OF FIXTURE AT 12'-0", TYPICAL FOR "S2.5" TYPE FIXTURES.
7. PRE-FABRICATED 2" CONTINUOUS SOFFIT VENT. REFER TO SECTION DETAILS.
8. PRE-FABRICATED 1/2" BOARD JOINT REVEAL.
9. METAL PANEL FASCIA TO SOFFIT RETURN. REFER TO SECTIONS AND DETAILS. TYPICAL.
10. BREAK METAL OVER STEEL PLATE. METAL SHALL BE SAME AS WALL PANEL METAL TYPE AND COLOR. REFER TO SECTIONS.

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN
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COMMERCIAL
INDUSTRIAL

G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

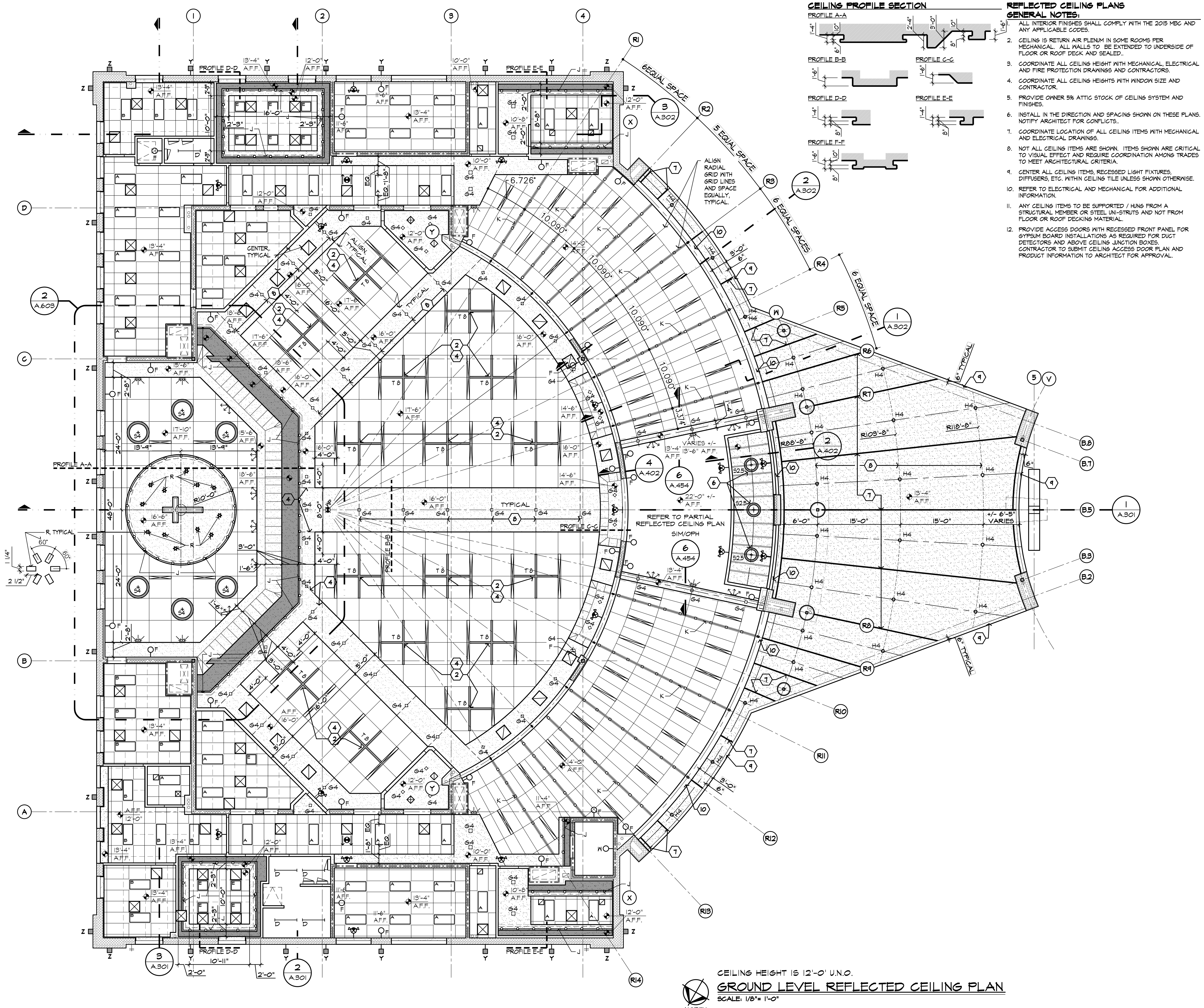
SCALE : 1/8" = 1'-0"

FILE NAME : 19059_A601

JOB #: 19059

SHEET TITLE
LOWER LEVEL REFLECTED CEILING PLAN

SHEET #
A.601



CEILING HEIGHT IS 12'-0' U.N.O.

GROUND LEVEL REFLECTED CEILING PLAN

SCALE: 1/8"= 1'-0"

NORTH

CEILING PROFILE SECTION

PROFILE A-A
PROFILE B-B
PROFILE C-C
PROFILE D-D
PROFILE E-E
PROFILE F-F

REFLECTED CEILING PLANS GENERAL NOTES:

1. ALL INTERIOR FINISHES SHALL COMPLY WITH THE 2015 MBC AND ANY APPLICABLE CODES.
2. CEILING IS RETURN AIR PLENUM IN SOME ROOMS PER MECHANICAL. ALL WALLS TO BE EXTENDED TO UNDERSIDE OF FLOOR OR ROOF DECK AND SEALED..
3. COORDINATE ALL CEILING HEIGHT WITH MECHANICAL, ELECTRICAL AND FIRE PROTECTION DRAWINGS AND CONTRACTORS.
4. COORDINATE ALL CEILING HEIGHTS WITH WINDOW SIZE AND CONTRACTOR.
5. PROVIDE OWNER 5% ATTIC STOCK OF CEILING SYSTEM AND FINISHES.
6. INSTALL IN THE DIRECTION AND SPACING SHOWN ON THESE PLANS. NOTIFY ARCHITECT FOR CONFLICTS..
7. COORDINATE LOCATION OF ALL CEILING ITEMS WITH MECHANICAL AND ELECTRICAL DRAWINGS.
8. NOT ALL CEILING ITEMS ARE SHOWN. ITEMS SHOWN ARE CRITICAL TO VISUAL EFFECT AND REQUIRE COORDINATION AMONG TRADES TO MEET ARCHITECTURAL CRITERIA.
9. CENTER ALL CEILING ITEMS, RECESSED LIGHT FIXTURES, DIFFUSERS, ETC. WITHIN CEILING TILE UNLESS SHOWN OTHERWISE.
10. REFER TO ELECTRICAL AND MECHANICAL FOR ADDITIONAL INFORMATION.
11. ANY CEILING ITEMS TO BE SUPPORTED / HUNG FROM A STRUCTURAL MEMBER OR STEEL UNI-STRUTS AND NOT FROM FLOOR OR ROOF DECKING MATERIAL.
12. PROVIDE ACCESS DOORS WITH RECESSED FRONT PANEL FOR GYPSUM BOARD INSTALLATIONS AS REQUIRED FOR DUCT DETECTORS AND ABOVE CEILING JUNCTION BOXES. CONTRACTOR TO SUBMIT CEILING ACCESS DOOR PLAN AND PRODUCT INFORMATION TO ARCHITECT FOR APPROVAL.

CEILING LEGEND:

ACT-1:
2' X 4' LAY-IN ACOUSTICAL TILE CEILING

ACT-2:
2' X 4' LAY-IN SCORED ACOUSTICAL TILE CEILING

ACT-3:
4' X 4' WOOD LAMINATED AND PERFORATED ACOUSTICAL CEILING WITH CONCEALED SUSPENSION GRID: ARMSTRONG WOODWORKS TEGULAR WITH W4 PERFORATION

ACT-4:
RADIAL ACOUSTICAL TILE CEILING SUSPENDED SYSTEM: ARMSTRONG OPTIMA RADIAL.

ACP-1:
ACOUSTICAL PANEL ON METAL FURRING. 1" THICK WITH CUSTOM SHAPE AS DEPICTED: ARMSTRONG FELTWORKS ACOUSTICAL PANEL

INTERIOR CEILINGS: GYPSUM CEILING ON METAL SUSPENSION SYSTEM - 1/2" GYPSUM BOARD ON 18 GA - 3 5/8" U.N.O. (AND AS NOTED ON SECTIONS / DETAILS) METAL FRAMING AT 12" O.C., TYPICAL. REFER TO SIMILAR DETAILS.
EXTERIOR CEILINGS: DEFS ON 5/8" EXTERIOR GRADE SHEATHING CEILING SYSTEM ON COLD FORMED METAL FRAMING. REFER TO DETAILS.

A/B — 2'x4' LED LIGHT FIXTURE - OFFICES (SHADE = NIGHT LIGHT)

C — DECORATIVE 8' LONG CEILING SUSPENDED LED LIGHT FIXTURE

D — 4' LED LIGHT FIXTURE

E — 2'x2' LED LIGHT FIXTURE (SHADE = NIGHT LIGHT)

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G — INTERIOR SQUARE CEILING RECESSED LED LIGHT FIXTURE WITH TRIM-LESS LESS OPTION FOR DRYWALL OR SUSPENDED CEILING. NUMBER INDICATES SIZE IN INCHES.

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WALL MOUNTED EMERGENCY LIGHT FIXTURE

WALL MOUNTED EXTERIOR EMERGENCY LIGHT FIXTURE

SUPPLY DIFFUSERS

RETURN AIR VENTS

REFLECTED CEILING PLANS NOTE LEGEND:

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DRAWN:	DESIGNED:	CHECKED:
SSA	DG	DG

SCALE : 1/8" = 1'-0"

FILE NAME : 19059_A602

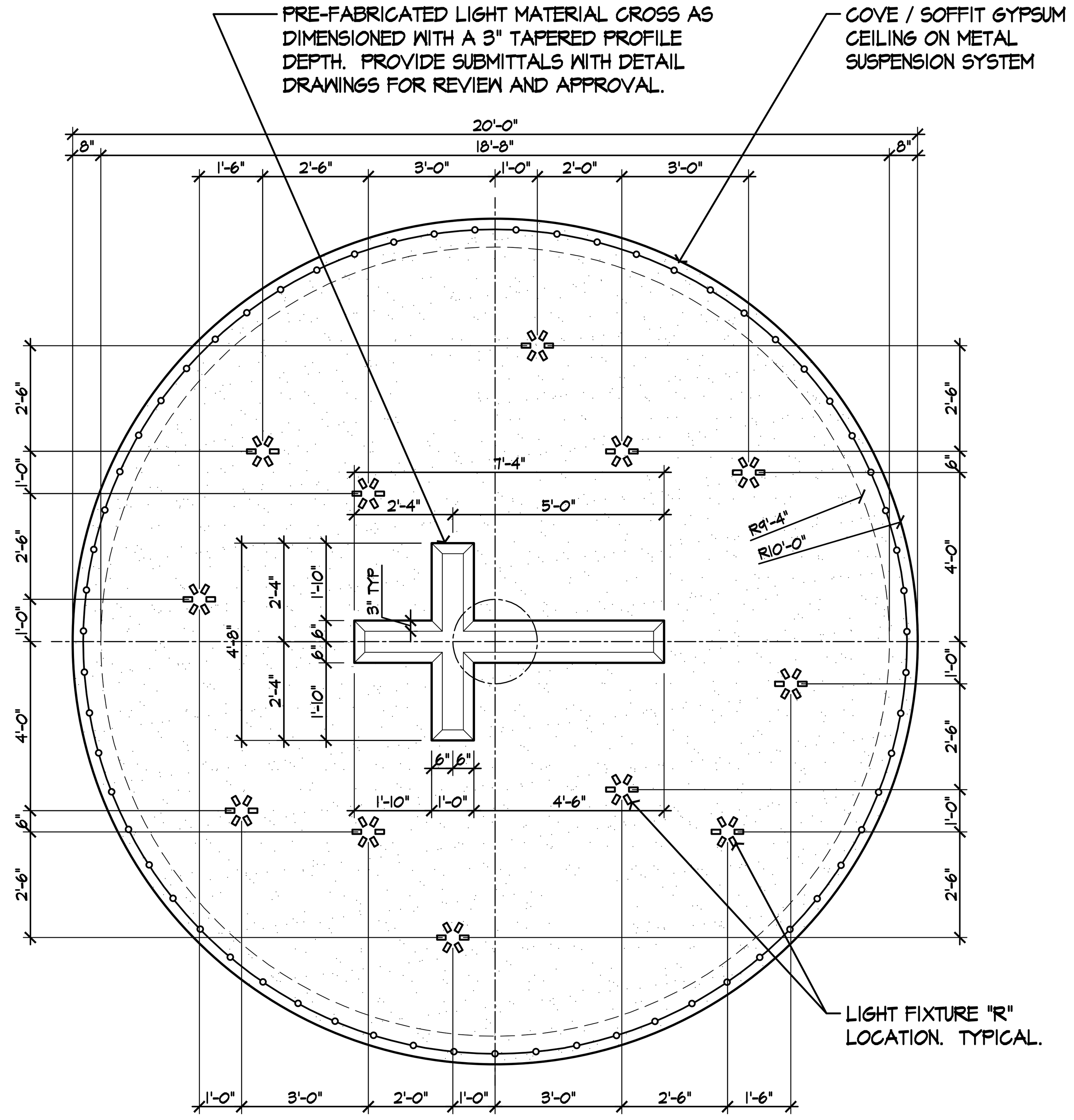
JOB #: 19059

SHEET TITLE

GROUND LEVEL REFLECTED CEILING PLAN

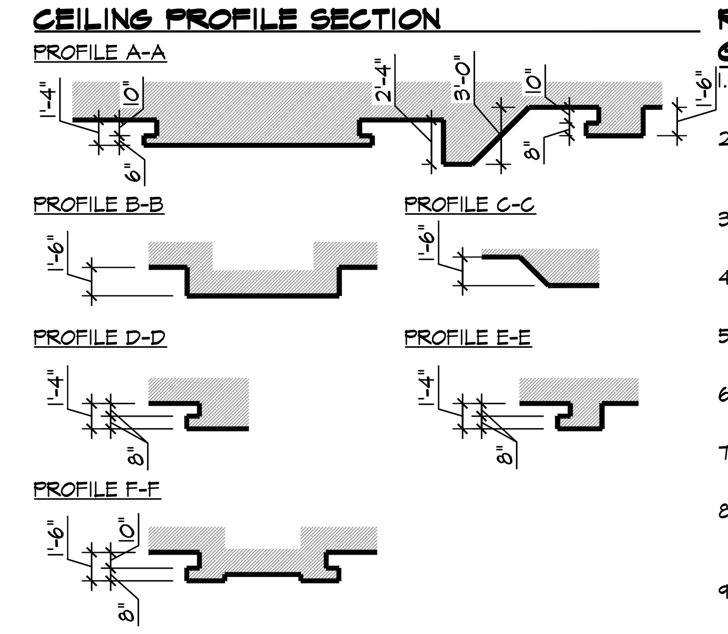
SHEET #

A.602



NORTH
3
A.602
ENLARGED ALTER CIRCLE REFLECTED CEILING PLAN
SCALE: 3/8"= 1'-0"

CEILING PROFILE SECTION



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RETURN AIR VENTS

REFLECTED CEILING PLANS NOTE LEGEND:

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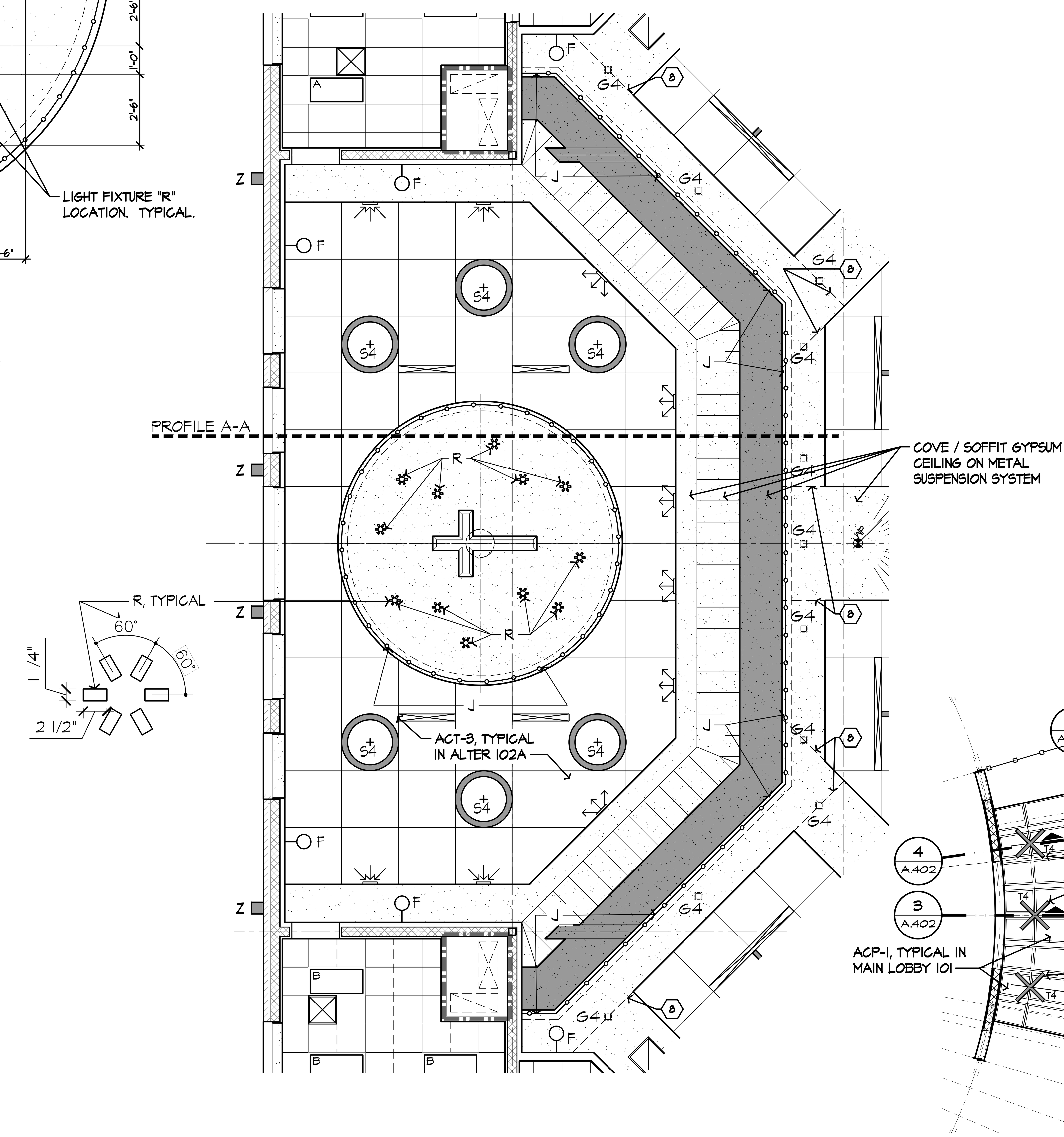
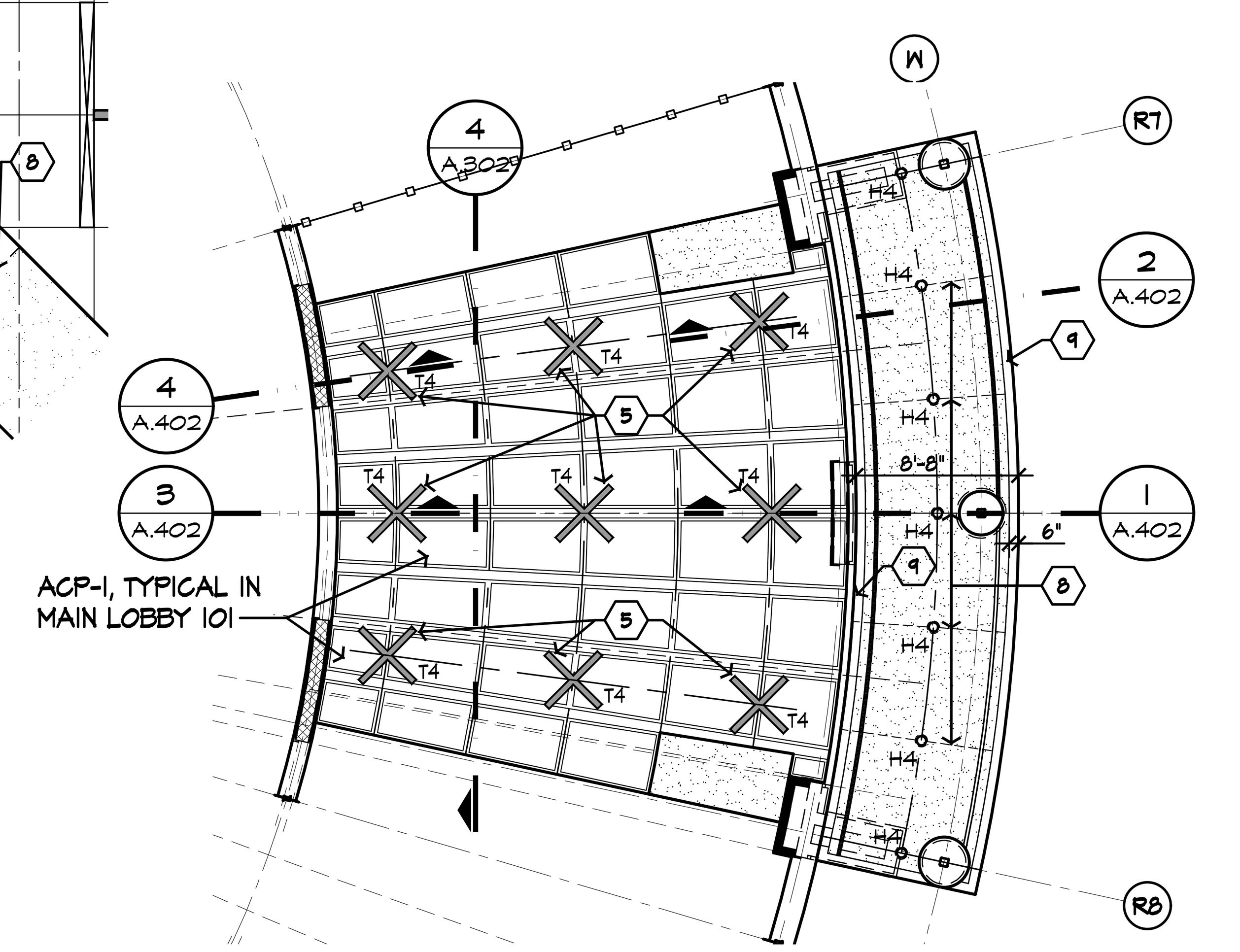


NORTH
2
A.602
ENLARGED ALTER AREA REFLECTED CEILING PLAN
SCALE: 1/4"= 1'-0"



NORTH
1
A.602
MAIN LOBBY AND OVERHANG GROUND LEVEL REFLECTED CEILING PLAN
SCALE: 1/8"= 1'-0"

ISSUED FOR	DATE
PERMITS	08.23.2021

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AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : 1/8" = 1'-0"

FILE NAME : 19059_A603

JOB #: 19059

SHEET TITLE
PARTAIL REFLECTED CEILING PLANS

SHEET #
A.603

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
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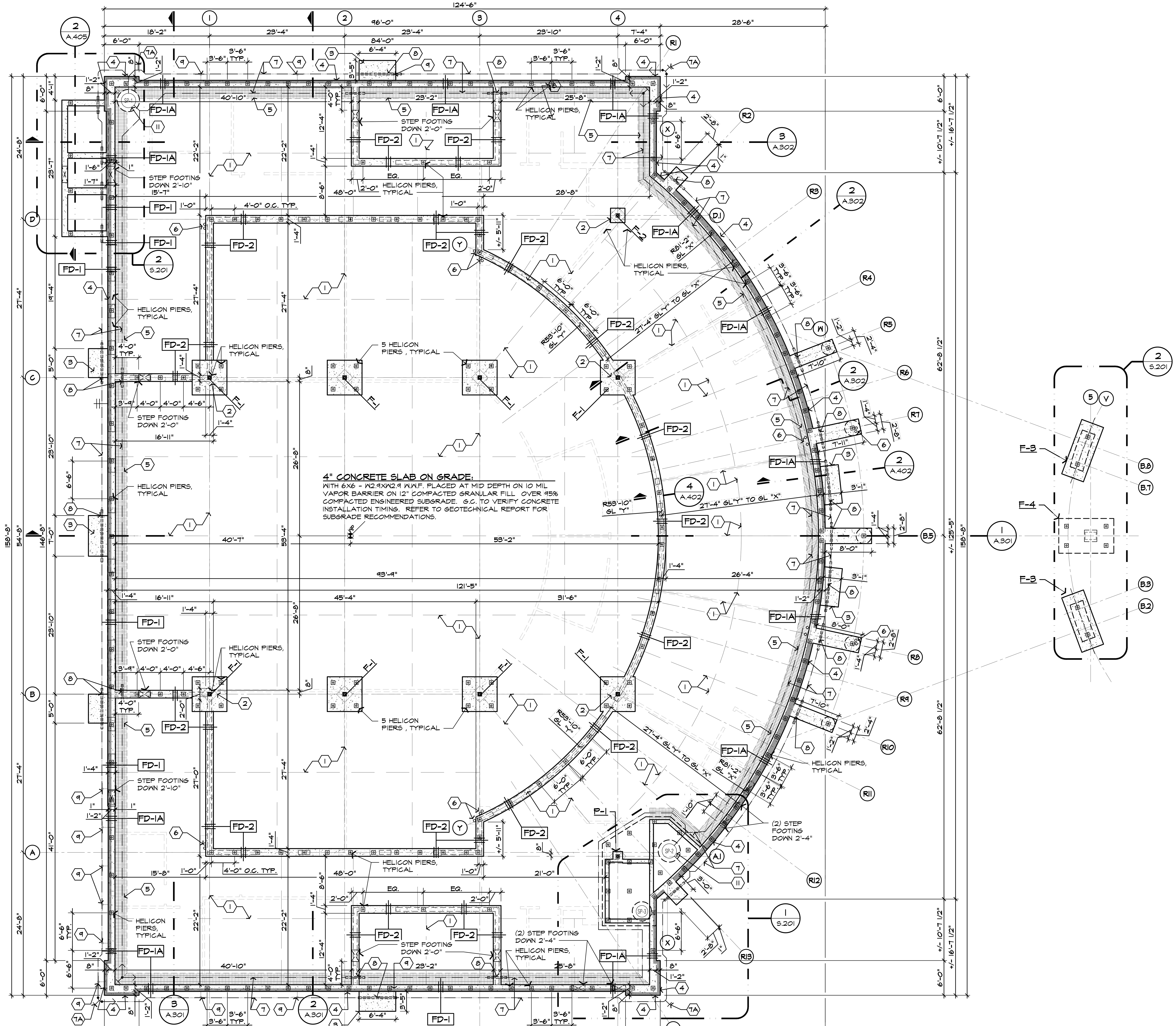

FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

COLUMNS FOOTINGS SCHEDULE:

MARK	SIZE (LxWxD)	REINFORCEMENT U.N.O.
F-1	6'-0"x6'-0"x2'-0"	#5 @ 8" O.C. EACH WAY AT BOTTOM #5 @ 12" O.C. EACH WAY AT TOP
F-2	2'-6"x2'-6"x1'-6"	#5 @ 12" O.C. EACH WAY AT TOP AND BOTTOM.
F-3	SEE DETAILS ON SHEET S.201 & A.456	#5 @ 8" O.C. EACH WAY AT BOTTOM #5 @ 12" O.C. EACH WAY AT TOP
F-4	SEE DETAILS ON SHEET S.201 & A.456	#6 @ 12" O.C. EACH WAY AT TOP AND BOTTOM.

WALL FOOTING SCHEDULE:

MARK	SIZE (WxD)	REINFORCEMENT U.N.O.
FD-1	1'-4"x3'-6"	SEE FD-1 DETAIL ON SHEET S-202
FD-1A	1'-4" x FULL HEIGHT WALL	SEE FD-1A DETAIL ON SHEET S-202
FD-2	1'-4"(*)x1'-6"	SEE FD-1 DETAIL ON SHEET S-202
FD-3	1'-0"VARIES (EXTERIOR STAIRS)	SEE SECTION DETAILS. FD-3A=2 #5 AT TOP & BOTTOM
FD-4	0'-8"x4'-4"	#4 @ 12" EACH FACE. SEE ELEVATOR SECTION DETAILS

* 1'-7" WIDE AT EXTERIOR CONCRETE STAIRS

PIER SCHEDULE:

MARK	SIZE (LxWxD)	REINFORCEMENT U.N.O.
P-1	1'-8"x1'-4"*x4'-4"	#5 BARS @ 12" O.C. EACH WAY AT AND BOTTOM. * SEE SECTION 2 ON A.407

FOUNDATIONS NOTES:

1. OVERLAP BAR REINFORCEMENT A MINIMUM OF 3'-0" AT ALL FOOTING CORNERS.
2. ALL TRENCH FOOTINGS TO HAVE #5 @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.
3. ALL WALL FOOTINGS ARE BASED ON 2,000 LB/FT^2
4. PROVIDE CONTINUOUS WATER STOP AT ALL BELOW GRADE CONCRETE JOINTS INCLUDING ELEVATOR PIT, TYPICAL.
5. COORDINATE WITH UNDERGROUND PLUMBING AND CIVIL.
6. BOTTOM OF EXTERIOR FOOTING / FOUNDATIONS SHALL BE A MINIMUM OF 42" BELOW GRADE.
7. COORDINATE ROOF CONDUCTORS WITH PLUMBING, ROOFING AND CONCRETE FOUNDATION CONTRACTORS.
8. PROVIDE MASS POUR FROST FOOTINGS AT ALL ENTRY DOORS.

FOUNDATION PLANS NOTE LEGEND:

1 CONTROL JOINT AND/OR CONSTRUCTION JOINT @ 15'-0" O.C. MAX. PROVIDE PVC WATER STOPS AT ALL JOINTS. TYPICAL.

2 PROVIDE DIAMOND PATTERN ISOLATION JOINT AT COLUMNS, PROVIDE PVC WATER STOPS AT ALL JOINTS. TYPICAL.

3 MASS CONCRETE POUR FROST FOOTING AT ALL EXTERIOR DOORS. SEE DETAIL 6/S.202, TYPICAL.

4 2" XPS RIGID INSULATION BOARD WITH INTERNAL DRAINAGE CHANNELS AT BUILDING FOUNDATION WALL PERIMETER. PROVIDE BELOW GRADE WATER PROOFING MEMBRANE AND PROTECTION BOARD. REFER TO SECTION DETAILS. TYPICAL.

5 2"x24" PERIMETER R-10 RIGID INSULATION UNDER SLAB, TYPICAL.

6 ROOF CONDUCTOR DOWN TO UNDERGROUND STORM PIPE. REFER TO AND COORDINATE WITH MECHANICAL AND CIVIL, TYPICAL.

7 BUILDING FOUNDATION WALL PERIMETER DRAIN PIPE - 6" PVC PERFORATED. HIGH STRENGTH AND BELOW GRADE PVC TYPE. 7A = CLEAN OUT LOCATIONS

8 DRAIN PIPE THRU CONCRETE SLEEVE - EXTRA STRONG SLEEVE WITH A MINIMUM 1" COMPRESSIBLE MATERIAL AROUND THE MAIN DRAIN PIPE. EXTEND 12" BEYOND CONCRETE ON BOTH SIDES. SEE DETAIL 8/A.408.

9 STEP BRICK LEDGE ON FOUNDATION WALL AN ESTIMATED 16", VERIFY IN FIELD AND COORDINATE WITH CIVIL AND BUILDING ELEVATIONS AND SECTION AS NEEDED. STEP BRICK LEDGE IN 8" INCREMENTS ONLY. TYPICAL.

10 COLUMN PIER: AT ROOF CONDUCTORS AND ELEVATOR, LOWER TOP OF FOOTING 2'-8" BELOW F.F.E. AND PROVIDE A CONCRETE PIER FOR COLUMN BASE PLATE, TYPICAL.

11 SUMP PUMP AND PIT FOR BUILDING FOUNDATION WALL PERIMETER DRAIN PIPE. REFER TO ELECTRICAL AND MECHANICAL. TYPICAL.

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DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

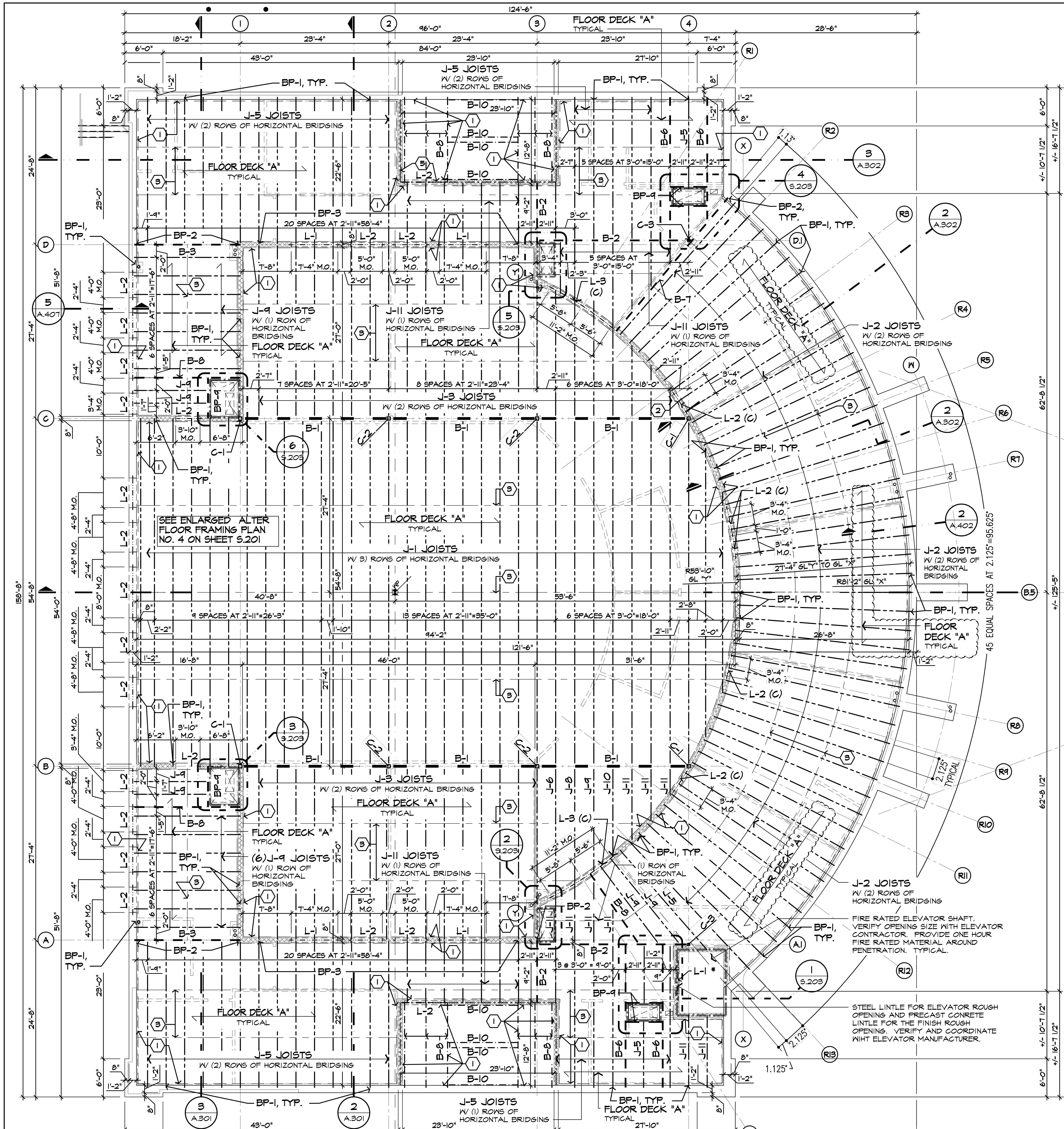
SCALE : 1/8" = 1'-0"

FILE NAME : 19059_S101

JOB #: 19059

SHEET TITLE
FOUNDATION PLAN

SHEET #
S.101



GROUND LEVEL FLOOR FRAMING PLAN

SCALE: 1/8" = 1'-0"

NORTH

NOTES:

1. PROVIDE 1/2" EXPANSION JOINT MATERIAL NEXT EXISTING CONCRETE MASONRY MATERIAL.
2. REFER TO WALL LEGEND ON ARCHITECTURAL PLANS AND SECTIONS FOR MASONRY AND CONCRETE STEEL REINFORCEMENT.
3. REFER TO ARCHITECTURAL SECTIONS MASONRY WALLS DIMENSIONS AND COORDINATION.
4. VERIFY AND COORDINATE STEEL ANGLE FRAMING FOR MECHANICAL PENETRATION OPENING SIZE WITH MECHANICAL CONTRACTOR. PROVIDE 2 HOUR FIRE RATED MATERIAL AROUND PENETRATION.
5. COORDINATE CONCRETE FLOOR AND STEEL FRAMING WITH ELEVATOR, MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS FOR CLEARANCES.

FRAMING PLANS NOTE LEGEND:

1. 3x3x1/4 AT FLOORS AND 4x4x14 AT ROOFS PERIMETER STEEL ANGLE WITH 1/2"x3" ANCHOR BOLTS @ 24" O.C., TYPICAL AT ALL WALL BEARING DECK CONDITIONS. ALSO AROUND ALL CONCRETE FLOOR DECK EDGES, ALL FLOOR DECK OPENINGS AND ROOF METAL DECK EDGES AND OPENINGS. TYPICAL.
   PROVIDE SAME ANGLE BUT 2 BACK-TO-BACK AT DECK SPAN CHANGE OVER STEEL BEAM, CHANNEL OR JOISTS. TYPICAL.
2. REFER TO ARCHITECTURAL FLOOR PLANS FOR DOOR OPENING LOCATION.
3. COORDINATE BRIDGING WITH WALL PARTITION BELOW, TYPICAL.
4. SINGLE LINE OF BOTTOM CHORD BRIDGING NEAR THE FIRST BOTTOM CHORD PANEL POINTS (NET UPLIFT PRESSURE OF 12 Lbs/Ft^2), TYPICAL.
5. FIRE RATED WALL CONSTRUCTION. REFER TO LIFE SAFETY SHEET AND FLOOR PLANS, TYPICAL.
6. 6x3 1/2x3/8 LLV STEEL ANGLES: HVAC CURB STEEL SUPPORTS. COORDINATE AND VERIFY SIZE AND LOCATION WITH MECHANICAL DRAWINGS AND CONTRACTOR, TYPICAL.
7. STEEL ANGLES FOR ROOF SUMP AND OVER FLOW DRAINS. SEE TYPICAL ROOF OPENING DETAIL. REFER TO ROOF PLAN AND COORDINATE WITH MECHANICAL DRAWINGS AND CONTRACTOR.
8. STEEL ANGLES FOR ROOF ACCESS LADDER AND ROOF HATCH, SEE DETAIL 5/A.408. VERIFY CLEAR OPENING WITH ROOF HATCH MANUFACTURER, TYPICAL.

FLOOR / ROOF DECK

MARK	SIZE
A	FLOOR DECK: 3" CONCRETE SLAB W/ 6x6 - W1.4x W1.4 W.W.F. ON 0.6C24 NON-COMPOSITE METAL FLOOR DECK. MINIMUM 3 SPAN. SUPPORTS: - 30/4 METAL DECK - SUPPORT FASTENER: 5/8" PUDDLE WELD - SIDE LAP FASTENERS: 1-#10 TEK SCREWS
B	ROOF DECK: 1.5B22 GALVANIZED METAL ROOF DECK. SUPPORTS: - 36/3 METAL DECK - SUPPORT FASTENERS: 5/8" PUDDLE WELD - SIDE LAP FASTENERS: 4-#10 TEK SCREW

BEARING PLATE SCHEDULE

MARK	SIZE	ANCHORS
(JOISTS) BP-1	6"x8"x3/8"	2-1/2"Φ x 8" STEEL STUDS
(LINTELS) BP-2	7 1/2"x7 1/2"x1/2"	2-1/2"Φ x 8" STEEL STUDS
BP-3	10"x8"x3/8"	2-1/2"Φ x 8" STEEL STUDS
BP-4	10"x8"x1/2"	2-1/2"Φ x 8" STEEL STUDS

REFER TO ARCHITECTURAL SECTION DETAILS FOR MISCELLANEOUS CURVED GALVANIZED STEEL ANGLES AND BENT PLATES. TYPICAL.

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE	ANCHOR BOLTS
C-1	HSS 6x6x1/4	12x12x3/4	(4) 3/4x18"
C-2	HSS 6x6x3/16	12x12x5/8	(4) 3/4x18"
C-3	HSS 4x4x3/16	10x10x1/2	(4) 3/4x18"
C-4	HSS 5x2x5/16	7 1/2x7 1/2x1/2	(4) 1/2x8"
C-5	HSS 5x3x1/4	6x8x1/2	(2) 3/4x8"
C-6	HSS 5x5x3/16	11x11x1/2	(4) 3/4x18"
C-7	HSS 6x6x3/8	12x12x3/4	(4) 3/4x18"

JOISTS SCHEDULE

MARK	SIZE	REMARKS
J-1	28LH10	
J-2	18K9	
J-3	18K7	
J-4	18K6	
J-5	18K4	
J-6	14K6	
J-7	14K1	
J-8	12K5	
J-9	12K3	
J-10	12K1	
J-11	10K1	
J-12	16K4	
J-13	16K3	
J-14	16K2	
J-15	28K12	

BEAM SCHEDULE

MARK	SIZE	REMARKS
B-1	W21x48	
B-2	W18x35	
B-3	W14x22	
B-4	W14x30	
B-5	W12x26	
B-6	W8x31	
B-7	W8x28	
B-8	W8x18	COORDINATE BEAMS AT STAIRS WITH STAIRS FABRICATOR
B-9	W8x10	
B-10	TS12x2x1/4	STRINGER: COORDINATE STAIRS FABRICATOR
B-11	TS8x6x5/16	
B-12	W16x36	
B-13	W12x16	
B-14	W8x31	
B-15	W21x55	
B-16	W21x44	

1. 5/8"x3 1/2" STEEL STUDS AT 10'-0" O.C. WELDED TO TOP FLANGE.
2. (C) = CURVED STEEL BEAM.

LINTELS SCHEDULE

MARK	SIZE	STEEL PLATE	BASE PLATE
L-1	W8x18		BP-2
L-2	W8x15		BP-1
L-3	W8x24		BP-2
L-4	W8x28		BP-2

1. (C) = CURVED STEEL LINTEL.
2. * = NO PLATE.
3. U.N.O., ALL LINTELS HAVE 3/8"x 7" OR 3/8"x13" STEEL PLATE WELDED TO BOTTOM FLANGE. REFER TO FLOOR PLANS AND WALL LEGEND FOR WALL THICKNESS, TYPICAL.
4. ** = 3/8"x8 1/2" STEEL PLATE WELDED TO BOTTOM FLANGE. REFER TO ARCHITECTURAL DETAILS

GENERAL TOP OF STEEL = 99'-9" U.N.O PROVIDE A 2 1/2"x4"x3/16" LLH GALVANIZED CONTINUOUS STEEL BENT PLATE OVER STEEL BEAMS / GIRDERS AS NEEDED TO MATCH BOTTOM OF FLOOR / ROOF DECK. REFER TO ARCHITECTURAL SECTION DETAILS.

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

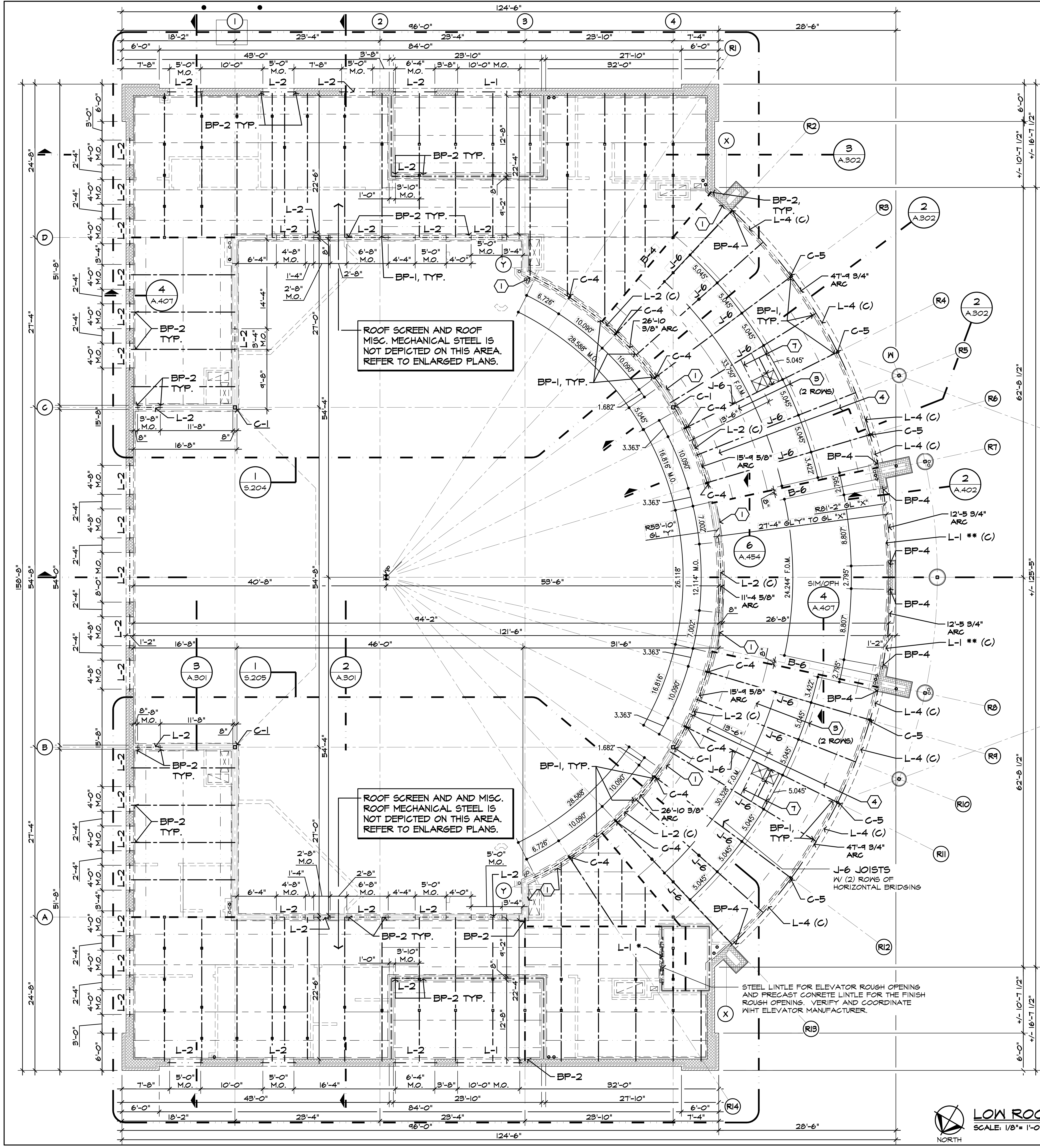
SCALE : 1/8" = 1'-0"

FILE NAME : 19059_S102

JOB #: 19059

SHEET TITLE
GROUND LEVEL FLOOR FRAMING PLAN

SHEET #
S.102



LOW ROOF FRAMING PLAN
SCALE: 1/8"= 1'-0"

NOTES:

1. PROVIDE 1/2" EXPANSION JOINT MATERIAL NEXT EXISTING CONCRETE MASONRY MATERIAL.
2. REFER TO WALL LEGEND ON ARCHITECTURAL PLANS AND SECTIONS FOR MASONRY AND CONCRETE STEEL REINFORCEMENT.
3. REFER TO ARCHITECTURAL SECTIONS MASONRY WALLS DIMENSIONS AND COORDINATION.
4. VERIFY AND COORDINATE STEEL ANGLE FRAMING FOR MECHANICAL PENETRATION OPENING SIZE WITH MECHANICAL CONTRACTOR. PROVIDE 2 HOUR FIRE RATED MATERIAL AROUND PENETRATION.
5. COORDINATE CONCRETE FLOOR AND STEEL FRAMING WITH ELEVATOR, MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS FOR CLEARANCES.

FRAMING PLANS NOTE LEGEND:

1. 3x3x1/4 AT FLOORS AND 4x4x14 AT ROOFS PERIMETER STEEL ANGLE WITH 1/2"x3" ANCHOR BOLTS @ 24" O.C., TYPICAL AT ALL WALL BEARING DECK CONDITIONS. ALSO AROUND ALL CONCRETE FLOOR DECK EDGES, ALL FLOOR DECK OPENINGS AND ROOF METAL DECK EDGES AND OPENINGS. TYPICAL.
   PROVIDE SAME ANGLE BUT 2 BACK-TO-BACK AT DECK SPAN CHANGE OVER STEEL BEAM, CHANNEL OR JOISTS. TYPICAL.
2. REFER TO ARCHITECTURAL FLOOR PLANS FOR DOOR OPENING LOCATION.
3. COORDINATE BRIDGING WITH WALL PARTITION BELOW, TYPICAL.
4. SINGLE LINE OF BOTTOM CHORD BRIDGING NEAR THE FIRST BOTTOM CHORD PANEL POINTS (NET UPLIFT PRESSURE OF 12 Lbs/Ft^2), TYPICAL.
5. FIRE RATED WALL CONSTRUCTION. REFER TO LIFE SAFETY SHEET AND FLOOR PLANS, TYPICAL.
6. 6x3 1/2x3/8 LLV STEEL ANGLES: HVAC CURB STEEL SUPPORTS. COORDINATE AND VERIFY SIZE AND LOCATION WITH MECHANICAL DRAWINGS AND CONTRACTOR, TYPICAL.
7. STEEL ANGLES FOR ROOF SUMP AND OVER FLOW DRAINS. SEE TYPICAL ROOF OPENING DETAIL. REFER TO ROOF PLAN AND COORDINATE WITH MECHANICAL DRAWINGS AND CONTRACTOR.
8. STEEL ANGLES FOR ROOF ACCESS LADDER AND ROOF HATCH, SEE DETAIL 5/A.408. VERIFY CLEAR OPENING WITH ROOF HATCH MANUFACTURER, TYPICAL.

FLOOR / ROOF DECK

MARK	SIZE
A	FLOOR DECK: 3" CONCRETE SLAB W/ 6x6 - W1.4x W1.4 W.W.F. ON 0.6C24 NON-COMPOSITE METAL FLOOR DECK. MINIMUM 3 SPAN. SUPPORTS: - 30/4 METAL DECK - SUPPORT FASTENER: 5/8" PUDDLE WELD - SIDE LAP FASTENERS: 1-#10 TEK SCREWS
B	ROOF DECK: 1.5B22 GALVANIZED METAL ROOF DECK. SUPPORTS: - 36/3 METAL DECK - SUPPORT FASTENERS: 5/8" PUDDLE WELD - SIDE LAP FASTENERS: 4-#10 TEK SCREW

BEARING PLATE SCHEDULE

MARK	SIZE	ANCHORS
(JOISTS) BP-1	6"x8"x3/8"	2-1/2"Φ x 8" STEEL STUDS
(LINTELS) BP-2	7 1/2"x7 1/2"x1/2"	2-1/2"Φ x 8" STEEL STUDS
BP-3	10"x8"x3/8"	2-1/2"Φ x 8" STEEL STUDS
BP-4	10"x8"x1/2"	2-1/2"Φ x 8" STEEL STUDS

REFER TO ARCHITECTURAL SECTION DETAILS FOR MISCELLANEOUS CURVED GALVANIZED STEEL ANGLES AND BENT PLATES. TYPICAL.

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE	ANCHOR BOLTS
C-1	HSS 6x6x1/4	12x12x3/4	(4) 3/4x18"
C-2	HSS 6x6x3/16	12x12x5/8	(4) 3/4x18"
C-3	HSS 4x4x3/16	10x10x1/2	(4) 3/4x18"
C-4	HSS 5x2x5/16	7 1/2x7 1/2x1/2	(4) 1/2x8"
C-5	HSS 5x3x1/4	6x8x1/2	(2) 3/4x8"
C-6	HSS 5x5x3/16	11x11x1/2	(4) 3/4x18"
C-7	HSS 6x6x3/8	12x12x3/4	(4) 3/4x18"

JOISTS SCHEDULE

MARK	SIZE	REMARKS
J-1	28LH10	
J-2	18K9	
J-3	18K7	
J-4	18K6	
J-5	18K4	
J-6	14K6	
J-7	14K1	
J-8	12K5	
J-9	12K3	
J-10	12K1	
J-11	10K1	
J-12	16K4	
J-13	16K3	
J-14	16K2	
J-15	28K12	

BEAM SCHEDULE

MARK	SIZE	REMARKS
B-1	W21x48	
B-2	W18x35	
B-3	W14x22	
B-4	W14x30	
B-5	W12x26	
B-6	W8x31	
B-7	W8x28	
B-8	W8x18	COORDINATE BEAMS AT STAIRS WITH STAIRS FABRICATOR
B-9	W8x10	
B-10	TS12x2x1/4	STRINGER: COORDINATE STAIRS FABRICATOR
B-11	TS8x6x5/16	
B-12	W16x36	
B-13	W12x16	
B-14	W8x31	
B-15	W21x55	
B-16	W21x44	

1. 5/8"x3 1/2" STEEL STUDS AT 10'-0" O.C. WELDED TO TOP FLANGE.
2. (C) = CURVED STEEL BEAM.

LINTELS SCHEDULE

MARK	SIZE	STEEL PLATE	BASE PLATE
L-1	W8x18		BP-2
L-2	W8x15		BP-1
L-3	W8x24		BP-2
L-4	W8x28		BP-2

1. (C) = CURVED STEEL LINTEL.
2. * = NO PLATE.
3. U.N.O., ALL LINTELS HAVE 3/8"x 7" OR 3/8"x13" STEEL PLATE WELDED TO BOTTOM FLANGE. REFER TO FLOOR PLANS AND WALL LEGEND FOR WALL THICKNESS, TYPICAL.
4. ** = 3/8"x8 1/2" STEEL PLATE WELDED TO BOTTOM FLANGE. REFER TO ARCHITECTURAL DETAILS

GENERAL TOP OF STEEL = 118'-2 1/2" U.N.O
PROVIDE A 2 1/2"x4"x3/16" LLH GALVANIZED CONTINUOUS STEEL BENT PLATE OVER STEEL BEAMS / GIRDERS AS NEEDED TO MATCH BOTTOM OF FLOOR / ROOF DECK. REFER TO ARCHITECTURAL SECTION DETAILS.

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN
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G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM
ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

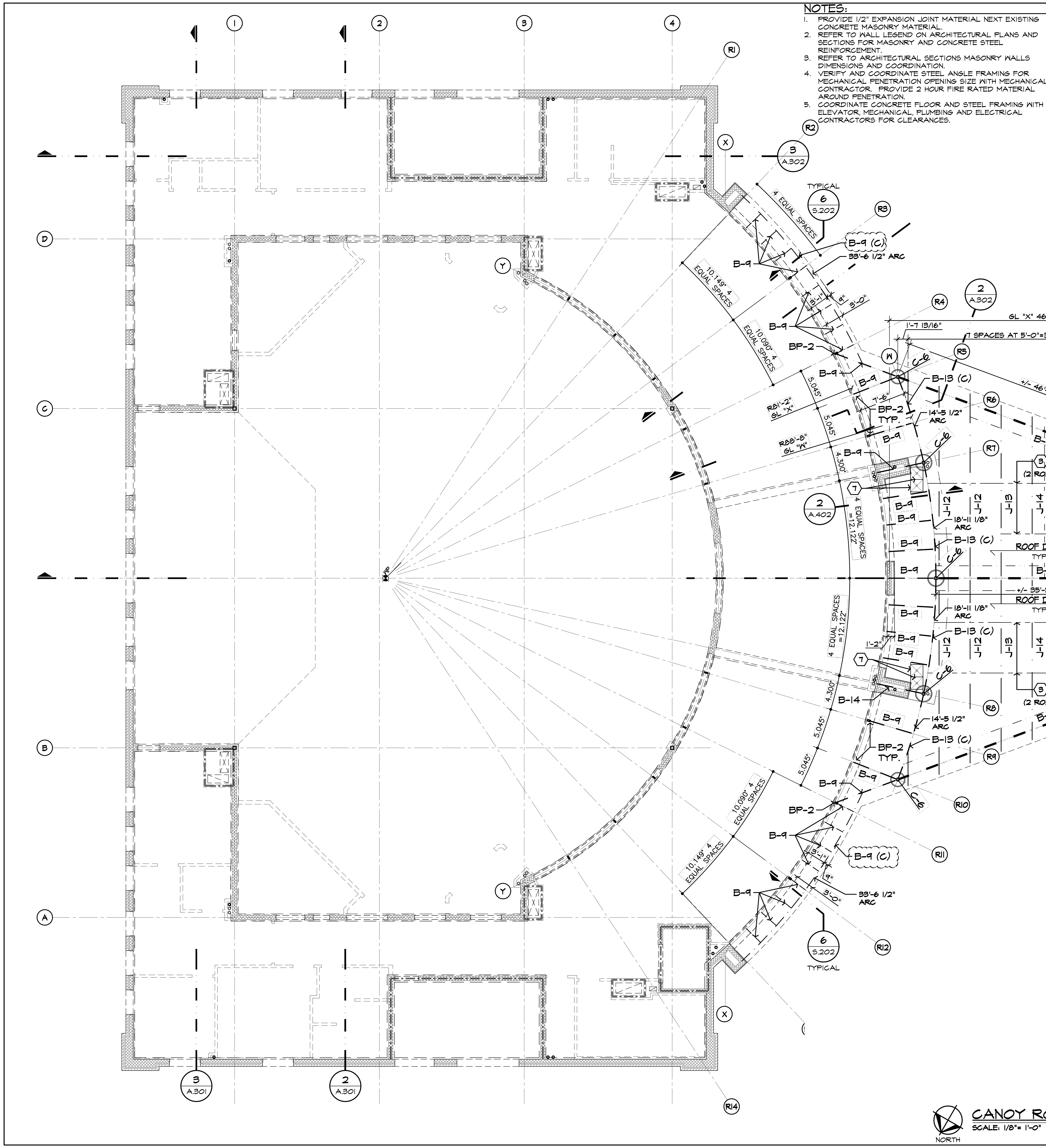
SCALE : 1/8" = 1'-0"
FILE NAME : 19059_S103
JOB #: 19059
SHEET TITLE
LOW ROOF FRAMING PLAN
SHEET #
S.103

NOTES:

1. PROVIDE 1/2" EXPANSION JOINT MATERIAL NEXT EXISTING CONCRETE MASONRY MATERIAL.
2. REFER TO WALL LEGEND ON ARCHITECTURAL PLANS AND SECTIONS FOR MASONRY AND CONCRETE STEEL REINFORCEMENT.
3. REFER TO ARCHITECTURAL SECTIONS MASONRY WALLS DIMENSIONS AND COORDINATION.
4. VERIFY AND COORDINATE STEEL ANGLE FRAMING FOR MECHANICAL PENETRATION OPENING SIZE WITH MECHANICAL CONTRACTOR. PROVIDE 2 HOUR FIRE RATED MATERIAL AROUND PENETRATION.
5. COORDINATE CONCRETE FLOOR AND STEEL FRAMING WITH ELEVATOR, MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS FOR CLEARANCES.

FRAMING PLANS NOTE LEGEND:

1. 3x3x1/4 AT FLOORS AND 4x4x14 AT ROOFS PERIMETER STEEL ANGLE WITH 1/2"x3" ANCHOR BOLTS @ 24" O.C., TYPICAL AT ALL WALL BEARING DECK CONDITIONS. ALSO AROUND ALL CONCRETE FLOOR DECK EDGES, ALL FLOOR DECK OPENINGS AND ROOF METAL DECK EDGES AND OPENINGS. TYPICAL.
   PROVIDE SAME ANGLE BUT 2 BACK-TO-BACK AT DECK SPAN CHANGE OVER STEEL BEAM, CHANNEL OR JOISTS. TYPICAL.
2. REFER TO ARCHITECTURAL FLOOR PLANS FOR DOOR OPENING LOCATION.
3. COORDINATE BRIDGING WITH WALL PARTITION BELOW, TYPICAL.
4. SINGLE LINE OF BOTTOM CHORD BRIDGING NEAR THE FIRST BOTTOM CHORD PANEL POINTS (NET UPLIFT PRESSURE OF 12 Lbs/Ft^2), TYPICAL.
5. FIRE RATED WALL CONSTRUCTION. REFER TO LIFE SAFETY SHEET AND FLOOR PLANS, TYPICAL.
6. 6x3 1/2x3/8 LLV STEEL ANGLES: HVAC CURB STEEL SUPPORTS. COORDINATE AND VERIFY SIZE AND LOCATION WITH MECHANICAL DRAWINGS AND CONTRACTOR, TYPICAL.
7. STEEL ANGLES FOR ROOF SUMP AND OVER FLOW DRAINS. SEE TYPICAL ROOF OPENING DETAIL. REFER TO ROOF PLAN AND COORDINATE WITH MECHANICAL DRAWINGS AND CONTRACTOR.
8. STEEL ANGLES FOR ROOF ACCESS LADDER AND ROOF HATCH, SEE DETAIL 5/A.408. VERIFY CLEAR OPENING WITH ROOF HATCH MANUFACTURER, TYPICAL.



CANOY ROOF FRAMING PLAN
SCALE: 1/8"= 1'-0"
NORTH

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE	ANCHOR BOLTS
C-1	HSS 6x6x1/4	12x12x3/4	(4) 3/4x18"
C-2	HSS 6x6x3/16	12x12x5/8	(4) 3/4x18"
C-3	HSS 4x4x3/16	10x10x1/2	(4) 3/4x18"
C-4	HSS 5x2x5/16	7 1/2x7 1/2x1/2	(4) 1/2x8"
C-5	HSS 5x3x1/4	6x8x1/2	(2) 3/4x8"
C-6	HSS 5x5x3/16	11x11x1/2	(4) 3/4x18"
C-7	HSS 6x6x3/8	12x12x3/4	(4) 3/4x18"

JOISTS SCHEDULE

MARK	SIZE	REMARKS
J-1	28LH10	
J-2	18K9	
J-3	18K7	
J-4	18K6	
J-5	18K4	
J-6	14K6	
J-7	14K1	
J-8	12K5	
J-9	12K3	
J-10	12K1	
J-11	10K1	
J-12	16K4	
J-13	16K3	
J-14	16K2	
J-15	28K12	

BEAM SCHEDULE

MARK	SIZE	REMARKS
B-1	W21x48	
B-2	W18x35	
B-3	W14x22	
B-4	W14x30	
B-5	W12x26	
B-6	W8x31	
B-7	W8x28	
B-8	W8x18	COORDINATE BEAMS AT STAIRS WITH STAIRS FABRICATOR
B-9	W8x10	
B-10	TS12x2x1/4	STRINGER: COORDINATE STAIRS FABRICATOR
B-11	TS8x6x5/16	
B-12	W16x36	
B-13	W12x16	
B-14	W8x31	
B-15	W21x55	
B-16	W21x44	

1. 5/8"x3 1/2" STEEL STUDS AT 10'-0" O.C. WELDED TO TOP FLANGE.
2. (C) = CURVED STEEL BEAM.

FLOOR / ROOF DECK

MARK	SIZE
A	FLOOR DECK: 3" CONCRETE SLAB W/ 6x6 - W1.4x W1.4 W.W.F. ON 0.6C24 NON-COMPOSITE METAL FLOOR DECK. MINIMUM 3 SPAN. SUPPORTS: - 30/4 METAL DECK - SUPPORT FASTENER: 5/8" PUDDLE WELD - SIDE LAP FASTENERS: 1-#10 TEK SCREWS
B	ROOF DECK: 1.5B22 GALVANIZED METAL ROOF DECK. SUPPORTS: - 36/3 METAL DECK - SUPPORT FASTENERS: 5/8" PUDDLE WELD - SIDE LAP FASTENERS: 4-#10 TEK SCREW

BEARING PLATE SCHEDULE

MARK	SIZE	ANCHORS
(JOISTS) BP-1	6"x8"x3/8"	2-1/2"Φ x 8" STEEL STUDS
(LINTELS) BP-2	7 1/2"x7 1/2"x1/2"	2-1/2"Φ x 8" STEEL STUDS
BP-3	10"x8"x3/8"	2-1/2"Φ x 8" STEEL STUDS
BP-4	10"x8"x1/2"	2-1/2"Φ x 8" STEEL STUDS

REFER TO ARCHITECTURAL SECTION DETAILS FOR MISCELLANEOUS CURVED GALVANIZED STEEL ANGLES AND BENT PLATES. TYPICAL.

LINTELS SCHEDULE

MARK	SIZE	STEEL PLATE	BASE PLATE
L-1	W8x18		BP-2
L-2	W8x15		BP-1
L-3	W8x24		BP-2
L-4	W8x28		BP-2

1. (C) = CURVED STEEL LINTEL.
2. * = NO PLATE.
3. U.N.O., ALL LINTELS HAVE 3/8"x 7" OR 3/8"x13" STEEL PLATE WELDED TO BOTTOM FLANGE. REFER TO FLOOR PLANS AND WALL LEGEND FOR WALL THICKNESS, TYPICAL.
4. ** = 3/8"x8 1/2" STEEL PLATE WELDED TO BOTTOM FLANGE. REFER TO ARCHITECTURAL DETAILS

GENERAL TOP OF STEEL = 115'-8 1/2" U.N.O PROVIDE A 2 1/2"x4"x3/16" LLH GALVANIZED CONTINUOUS STEEL BENT PLATE OVER STEEL BEAMS / GIRDERS AS NEEDED TO MATCH BOTTOM OF FLOOR / ROOF DECK. REFER TO ARCHITECTURAL SECTION DETAILS.

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN

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PH: (248) 985-9101
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ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

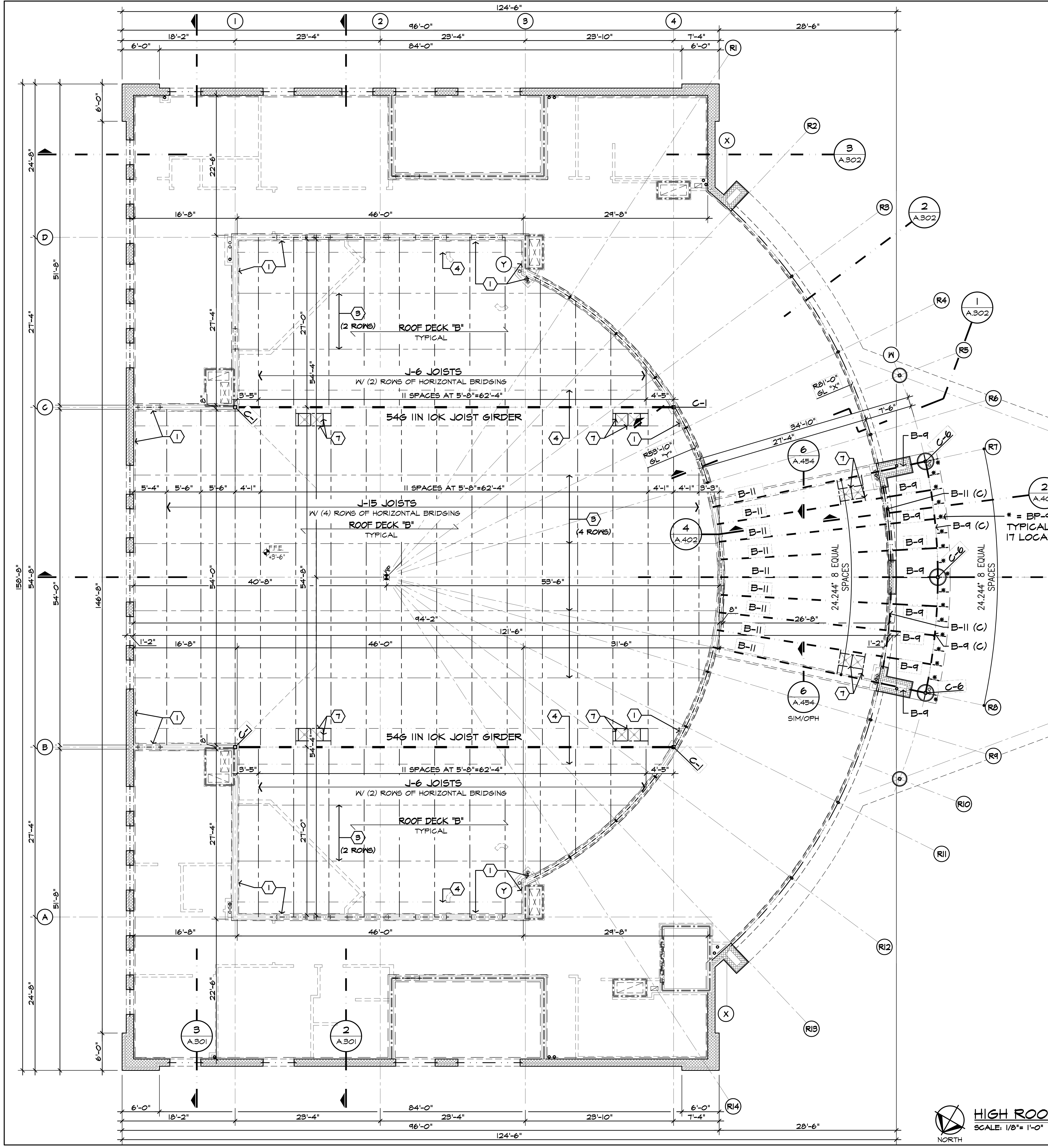
SCALE : 1/8" = 1'-0"

FILE NAME : 19059_S104

JOB #: 19059

SHEET TITLE
CANOPY ROOF FRAMING PLAN

SHEET #
S.104



HIGH ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

NORTH

NOTES:

1. PROVIDE 1/2" EXPANSION JOINT MATERIAL NEXT EXISTING CONCRETE MASONRY MATERIAL.
2. REFER TO WALL LEGEND ON ARCHITECTURAL PLANS AND SECTIONS FOR MASONRY AND CONCRETE STEEL REINFORCEMENT.
3. REFER TO ARCHITECTURAL SECTIONS MASONRY WALLS DIMENSIONS AND COORDINATION.
4. VERIFY AND COORDINATE STEEL ANGLE FRAMING FOR MECHANICAL PENETRATION OPENING SIZE WITH MECHANICAL CONTRACTOR. PROVIDE 2 HOUR FIRE RATED MATERIAL AROUND PENETRATION.
5. COORDINATE CONCRETE FLOOR AND STEEL FRAMING WITH ELEVATOR, MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS FOR CLEARANCES.

FRAMING PLANS NOTE LEGEND:

1. 3x3x1/4 AT FLOORS AND 4x4x14 AT ROOFS PERIMETER STEEL ANGLE WITH 1/2"x3" ANCHOR BOLTS @ 24" O.C., TYPICAL AT ALL WALL BEARING DECK CONDITIONS. ALSO AROUND ALL CONCRETE FLOOR DECK EDGES, ALL FLOOR DECK OPENINGS AND ROOF METAL DECK EDGES AND OPENINGS. TYPICAL.
   PROVIDE SAME ANGLE BUT 2 BACK-TO-BACK AT DECK SPAN CHANGE OVER STEEL BEAM, CHANNEL OR JOISTS. TYPICAL.
2. REFER TO ARCHITECTURAL FLOOR PLANS FOR DOOR OPENING LOCATION.
3. COORDINATE BRIDGING WITH WALL PARTITION BELOW, TYPICAL.
4. SINGLE LINE OF BOTTOM CHORD BRIDGING NEAR THE FIRST BOTTOM CHORD PANEL POINTS (NET UPLIFT PRESSURE OF 12 Lbs/Ft^2), TYPICAL.
5. FIRE RATED WALL CONSTRUCTION. REFER TO LIFE SAFETY SHEET AND FLOOR PLANS, TYPICAL.
6. 6x3 1/2x3/8 LLV STEEL ANGLES: HVAC CURB STEEL SUPPORTS. COORDINATE AND VERIFY SIZE AND LOCATION WITH MECHANICAL DRAWINGS AND CONTRACTOR, TYPICAL.
7. STEEL ANGLES FOR ROOF SUMP AND OVER FLOW DRAINS. SEE TYPICAL ROOF OPENING DETAIL. REFER TO ROOF PLAN AND COORDINATE WITH MECHANICAL DRAWINGS AND CONTRACTOR.
8. STEEL ANGLES FOR ROOF ACCESS LADDER AND ROOF HATCH, SEE DETAIL 5/A.408. VERIFY CLEAR OPENING WITH ROOF HATCH MANUFACTURER, TYPICAL.

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE	ANCHOR BOLTS
C-1	HSS 6x6x1/4	12x12x3/4	(4) 3/4x18"
C-2	HSS 6x6x3/16	12x12x5/8	(4) 3/4x18"
C-3	HSS 4x4x3/16	10x10x1/2	(4) 3/4x18"
C-4	HSS 5x2x5/16	7 1/2x7 1/2x1/2	(4) 1/2x8"
C-5	HSS 5x3x1/4	6x8x1/2	(2) 3/4x8"
C-6	HSS 5x5x3/16	11x11x1/2	(4) 3/4x18"
C-7	HSS 6x6x3/8	12x12x3/4	(4) 3/4x18"

JOISTS SCHEDULE

MARK	SIZE	REMARKS
J-1	28LH10	
J-2	18K9	
J-3	18K7	
J-4	18K6	
J-5	18K4	
J-6	14K6	
J-7	14K1	
J-8	12K5	
J-9	12K3	
J-10	12K1	
J-11	10K1	
J-12	16K4	
J-13	16K3	
J-14	16K2	
J-15	28K12	

BEAM SCHEDULE

MARK	SIZE	REMARKS
B-1	W21x48	
B-2	W18x35	
B-3	W14x22	
B-4	W14x30	
B-5	W12x26	
B-6	W8x31	
B-7	W8x28	
B-8	W8x18	COORDINATE BEAMS AT STAIRS WITH STAIRS FABRICATOR
B-9	W8x10	
B-10	TS12x2x1/4	STRINGER: COORDINATE STAIRS FABRICATOR
B-11	TS8x6x5/16	
B-12	W16x36	
B-13	W12x16	
B-14	W8x31	
B-15	W21x55	
B-16	W21x44	

1. 5/8"x3 1/2" STEEL STUDS AT 10'-0" O.C. WELDED TO TOP FLANGE.
2. (C) = CURVED STEEL BEAM.

FLOOR / ROOF DECK

MARK	SIZE
A	FLOOR DECK: 3" CONCRETE SLAB W/ 6x6 - W1.4x W1.4 W.W.F. ON 0.6C24 NON-COMPOSITE METAL FLOOR DECK. MINIMUM 3 SPAN. SUPPORTS: - 30/4 METAL DECK - SUPPORT FASTENER: 5/8" PUDDLE WELD - SIDE LAP FASTENERS: 1-#10 TEK SCREWS
B	ROOF DECK: 1.5B22 GALVANIZED METAL ROOF DECK. SUPPORTS: - 36/3 METAL DECK - SUPPORT FASTENERS: 5/8" PUDDLE WELD - SIDE LAP FASTENERS: 4-#10 TEK SCREW

BEARING PLATE SCHEDULE

MARK	SIZE	ANCHORS
(JOISTS) BP-1	6"x8"x3/8"	2-1/2"Φ x 8" STEEL STUDS
(LINTELS) BP-2	7 1/2"x7 1/2"x1/2"	2-1/2"Φ x 8" STEEL STUDS
BP-3	10"x8"x3/8"	2-1/2"Φ x 8" STEEL STUDS
BP-4	10"x8"x1/2"	2-1/2"Φ x 8" STEEL STUDS

REFER TO ARCHITECTURAL SECTION DETAILS FOR MISCELLANEOUS CURVED GALVANIZED STEEL ANGLES AND BENT PLATES. TYPICAL.

LINTELS SCHEDULE

MARK	SIZE	STEEL PLATE	BASE PLATE
L-1	W8x18		BP-2
L-2	W8x15		BP-1
L-3	W8x24		BP-2
L-4	W8x28		BP-2

1. (C) = CURVED STEEL LINTEL.
2. * = NO PLATE.
3. U.N.O., ALL LINTELS HAVE 3/8"x 7" OR 3/8"x13" STEEL PLATE WELDED TO BOTTOM FLANGE. REFER TO FLOOR PLANS AND WALL LEGEND FOR WALL THICKNESS, TYPICAL.
4. ** = 3/8"x8 1/2" STEEL PLATE WELDED TO BOTTOM FLANGE. REFER TO ARCHITECTURAL DETAILS

GENERAL TOP OF STEEL = 122'-8" U.N.O
PROVIDE A 2 1/2"x4"x3/16" LLH GALVANIZED CONTINUOUS STEEL BENT PLATE OVER STEEL BEAMS / GIRDERS AS NEEDED TO MATCH BOTTOM OF FLOOR / ROOF DECK. REFER TO ARCHITECTURAL SECTION DETAILS.

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

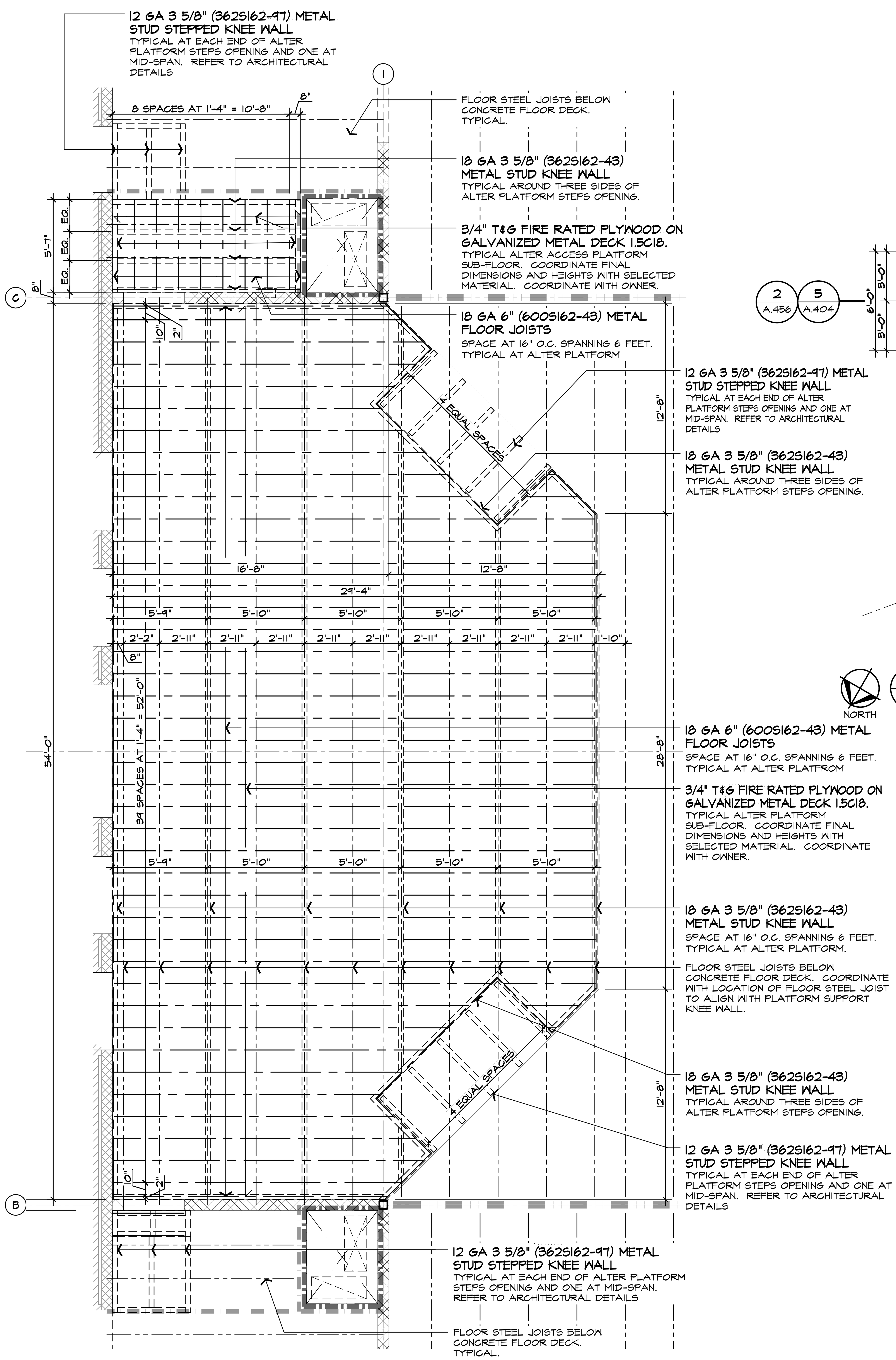
SCALE : 1/8" = 1'-0"

FILE NAME : 19059_S105

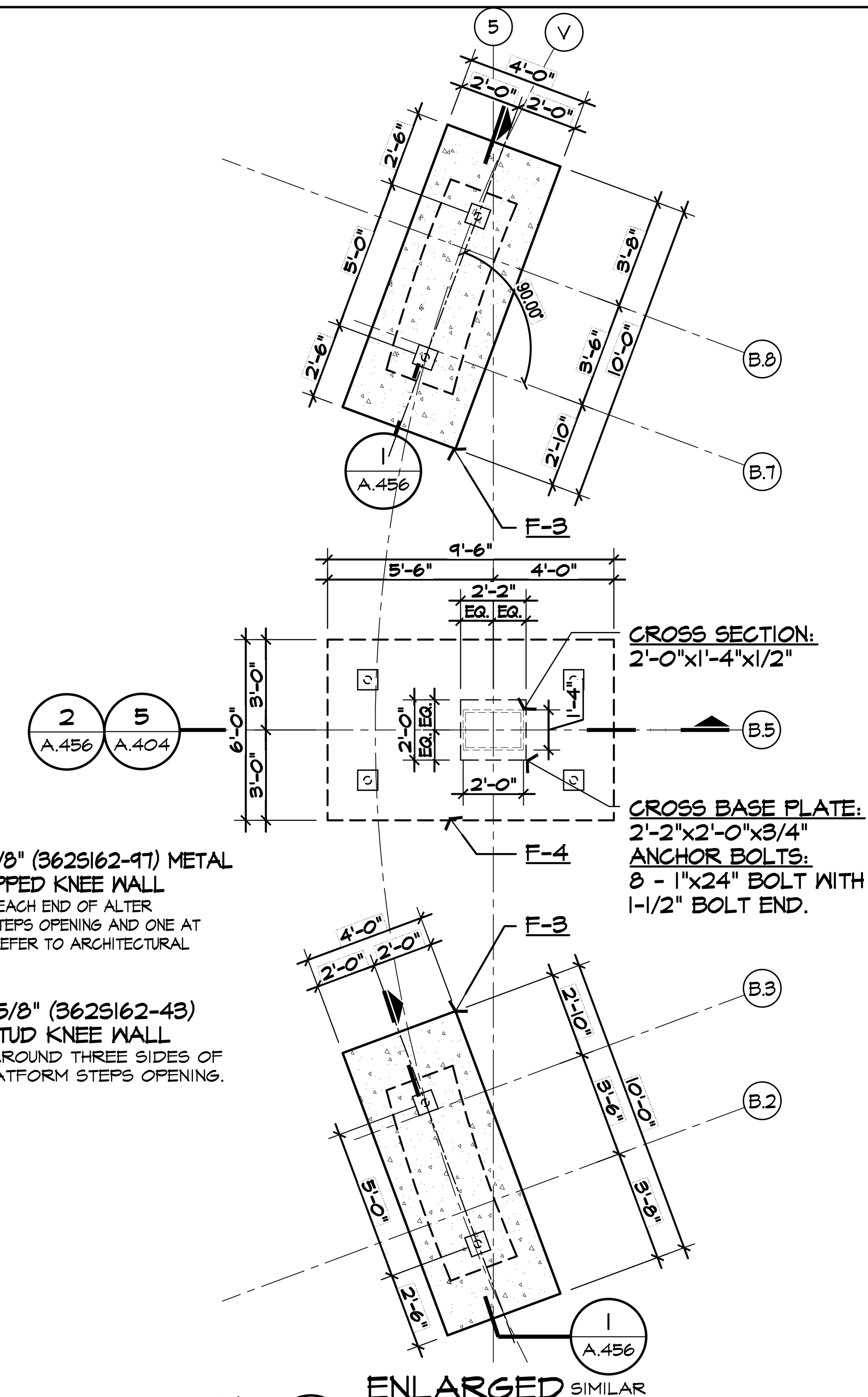
JOB #: 19059

SHEET TITLE
HIGH ROOF FRAMING PLAN

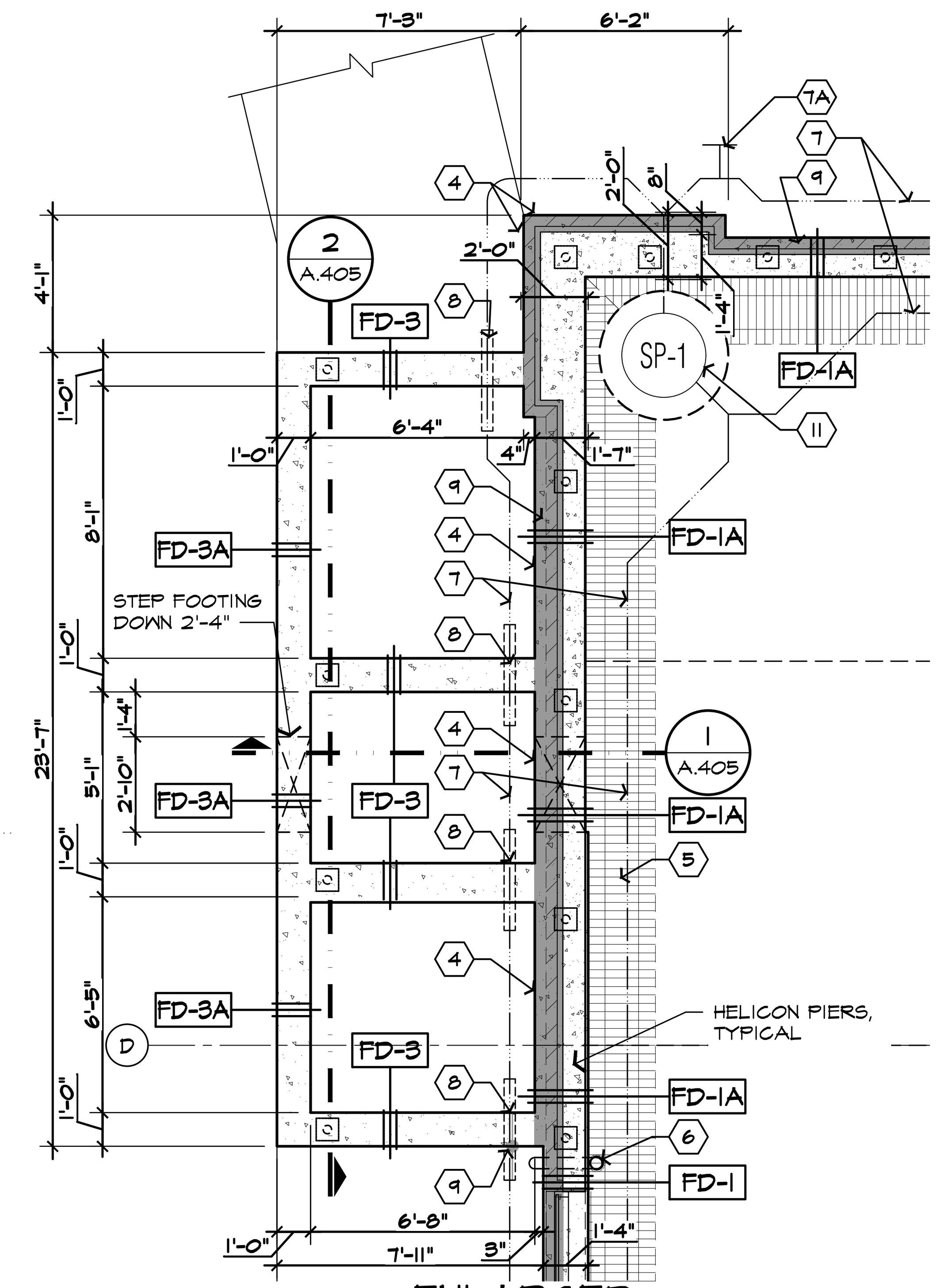
SHEET #
S.105



4 S.102 ENLARGED ALTER FRAMING PLAN
SCALE: 1/4" = 1'-0"



3 S.101 ENLARGED FOUNDATION PLAN SIMILAR
SCALE: 1/4" = 1'-0"



2 S.101 ENLARGED FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

COLUMNS FOOTINGS SCHEDULE:

MARK	SIZE (LxWxD)	REINFORCEMENT U.NO.
F-1	6'-0"x6'-0"x2'-0"	#5 @ 8" O.C. EACH WAY AT BOTTOM #5 @ 12" O.C. EACH WAY AT TOP
F-2	2'-6"x2'-6"x1'-6"	#5 @ 12" O.C. EACH WAY AT TOP AND BOTTOM.
F-3	SEE DETAILS ON SHEET S.201 & A.456	#5 @ 8" O.C. EACH WAY AT BOTTOM #5 @ 12" O.C. EACH WAY AT TOP
F-4	SEE DETAILS ON SHEET S.201 & A.456	#6 @ 12" O.C. EACH WAY AT TOP AND BOTTOM.

WALL FOOTING SCHEDULE:

MARK	SIZE (WxD)	REINFORCEMENT U.NO.
FD-1	1'-4"x3'-6"	SEE FD-1 DETAIL ON SHEET S-202
FD-1A	1'-4" x FULL HEIGHT WALL	SEE FD-1A DETAIL ON SHEET S-202
FD-2	1'-4"(*)x1'-6"	SEE FD-1 DETAIL ON SHEET S-202
FD-3	1'-0"VARIES (EXTERIOR STAIRS)	SEE SECTION DETAILS. FD-3A=2 #5 AT TOP & BOTTOM
FD-4	0'-8"x4'-4"	#4 @ 12" EACH FACE. SEE ELEVATOR SECTION DETAILS

* 1'-7" WIDE AT EXTERIOR CONCRETE STAIRS

PIER SCHEDULE:

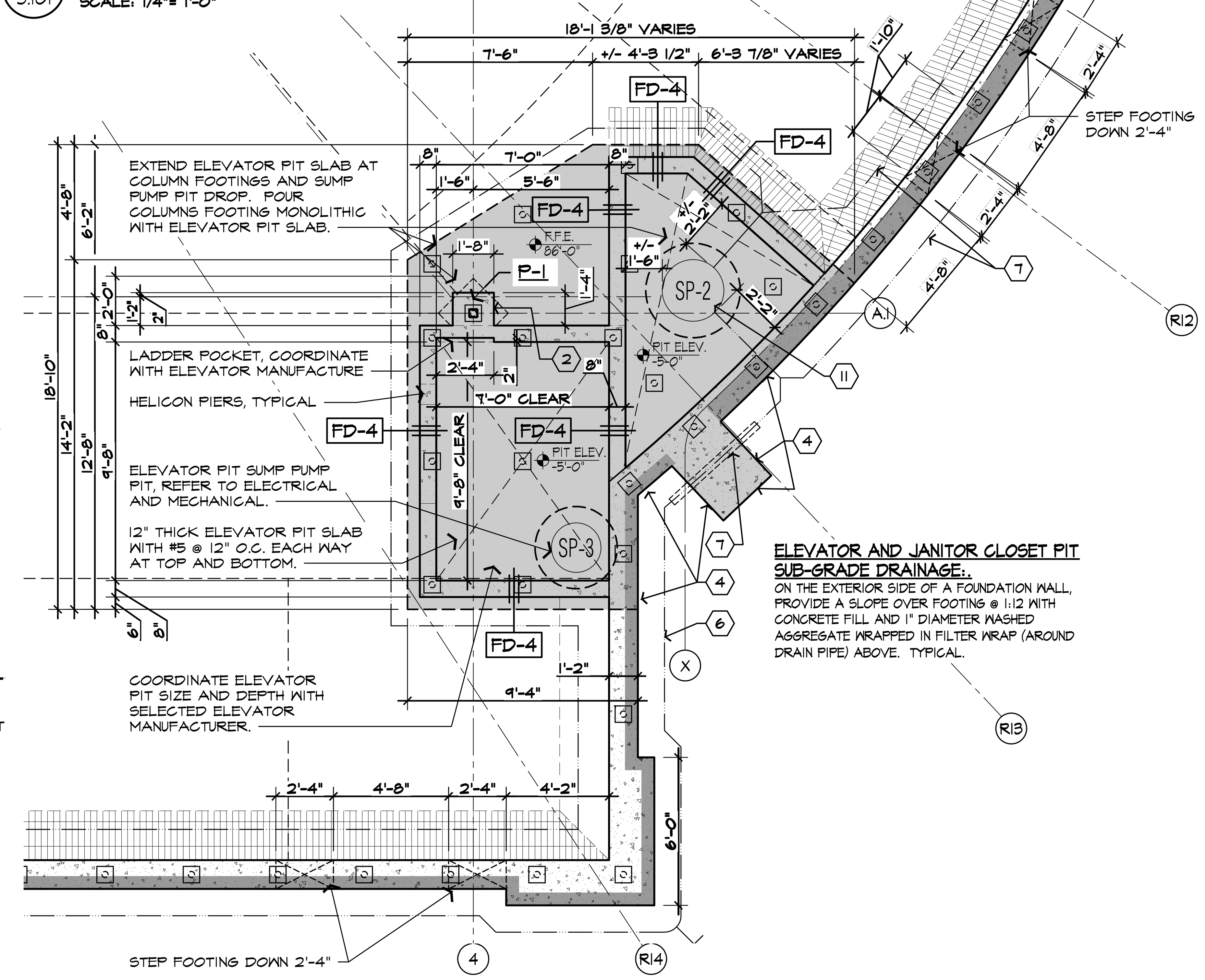
MARK	SIZE (LxWxD)	REINFORCEMENT U.NO.
P-1	1'-8"x1'-4"*x4'-4"	#5 BARS @ 12" O.C. EACH WAY AT AND BOTTOM. * SEE SECTION 2 ON A.407

FOUNDATIONS NOTES:

1. OVERLAP BAR REINFORCEMENT A MINIMUM OF 3'-0" AT ALL FOOTING CORNERS.
2. ALL TRENCH FOOTINGS TO HAVE #5 @ 32" O.C. DOWELS TO BE 2'-0" INTO FOOTING AND 3'-0" ABOVE.
3. ALL WALL FOOTINGS ARE BASED ON 2,000 LB/FT^2
4. PROVIDE CONTINUOUS WATER STOP AT ALL BELOW GRADE CONCRETE JOINTS INCLUDING ELEVATOR PIT, TYPICAL.
5. COORDINATE WITH UNDERGROUND PLUMBING AND CIVIL.
6. BOTTOM OF EXTERIOR FOOTING / FOUNDATIONS SHALL BE A MINIMUM OF 42" BELOW GRADE.
7. COORDINATE ROOF CONDUCTORS WITH PLUMBING, ROOFING AND CONCRETE FOUNDATION CONTRACTORS.
8. PROVIDE MASS POUR FROST FOOTINGS AT ALL ENTRY DOORS.

FOUNDATION PLANS NOTE LEGEND:

1. CONTROL JOINT AND/OR CONSTRUCTION JOINT @ 15'-0" O.C. MAX. PROVIDE PVC WATER STOPS AT ALL JOINTS. TYPICAL.
2. PROVIDE DIAMOND PATTERN ISOLATION JOINT AT COLUMNS, PROVIDE PVC WATER STOPS AT ALL JOINTS. TYPICAL.
3. MASS CONCRETE POUR FROST FOOTING AT ALL EXTERIOR DOORS. SEE DETAIL 6/S.202, TYPICAL.
4. 2" XPS RIGID INSULATION BOARD WITH INTERNAL DRAINAGE CHANNELS AT BUILDING FOUNDATION WALL PERIMETER. PROVIDE BELOW GRADE WATER PROOFING MEMBRANE AND PROTECTION BOARD. REFER TO SECTION DETAILS. TYPICAL.
5. 2"x24" PERIMETER R-10 RIGID INSULATION UNDER SLAB, TYPICAL.
6. ROOF CONDUCTOR DOWN TO UNDERGROUND STORM PIPE. REFER TO AND COORDINATE WITH MECHANICAL AND CIVIL, TYPICAL.
7. BUILDING FOUNDATION WALL PERIMETER DRAIN PIPE - 6" PVC PERFORATED. HIGH STRENGTH AND BELOW GRADE PVC TYPE. 7A = CLEAN OUT LOCATIONS
8. DRAIN PIPE THRU CONCRETE SLEEVE - EXTRA STRONG SLEEVE WITH A MINIMUM 1" COMPRESSIBLE MATERIAL AROUND THE MAIN DRAIN PIPE. EXTEND 12" BEYOND CONCRETE ON BOTH SIDES. SEE DETAIL 8/A.408.
9. STEP BRICK LEDGE ON FOUNDATION WALL AN ESTIMATED 16", VERIFY IN FIELD AND COORDINATE WITH CIVIL AND BUILDING ELEVATIONS AND SECTION AS NEEDED. STEP BRICK LEDGE IN 8" INCREMENTS ONLY. TYPICAL.
10. COLUMN PIER: AT ROOF CONDUCTORS AND ELEVATOR, LOWER TOP OF FOOTING 2'-8" BELOW F.F.E. AND PROVIDE A CONCRETE PIER FOR COLUMN BASE PLATE, TYPICAL.
11. SUMP PUMP AND PIT FOR BUILDING FOUNDATION WALL PERIMETER DRAIN PIPE. REFER TO ELECTRICAL AND MECHANICAL. TYPICAL.



1 S.101 ENLARGED FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

ISSUED FOR	DATE
PERMITS	08.23.2021

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G.A.V. ASSOCIATES, INC
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FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

GAV ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

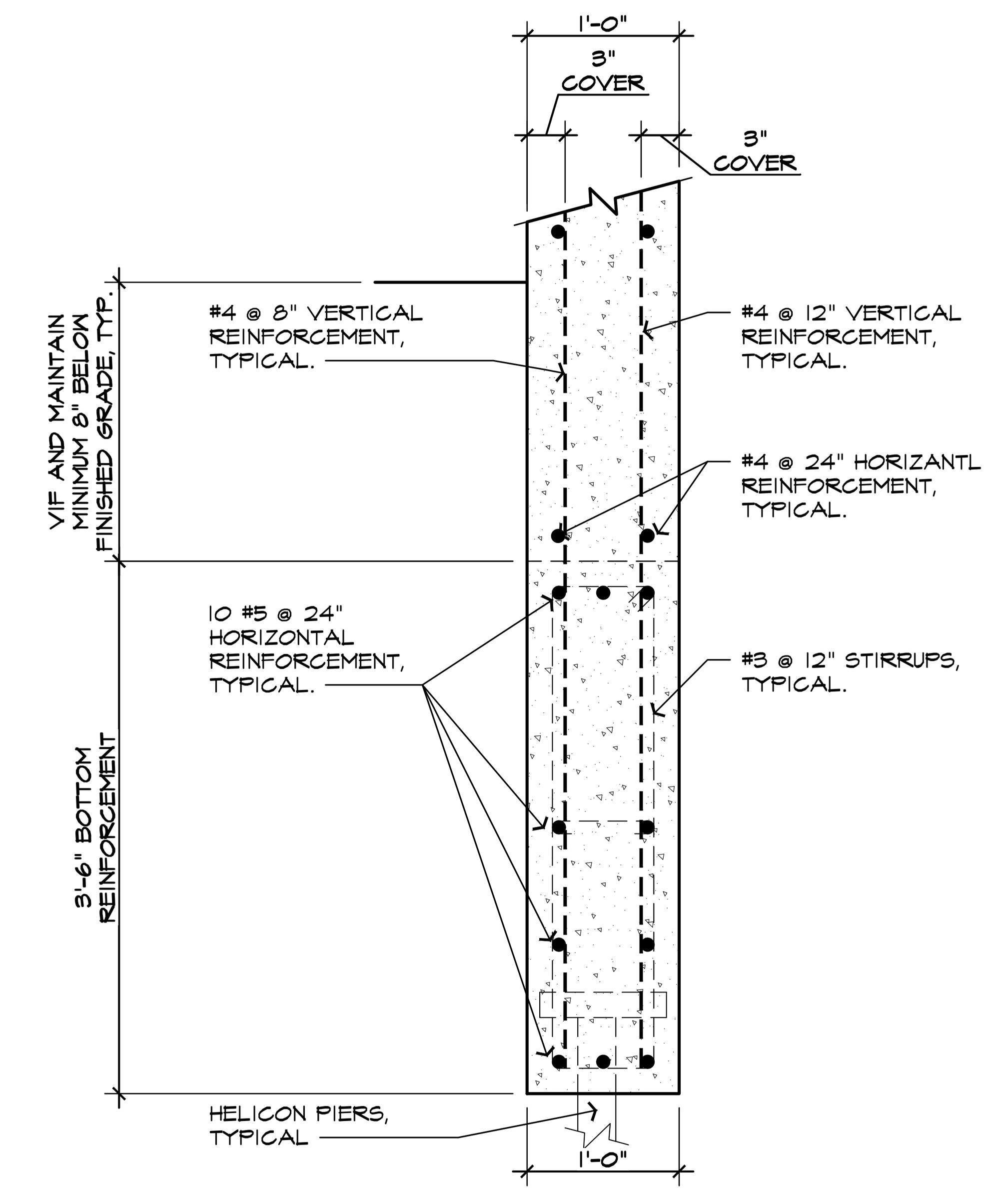
DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : 1/8" = 1'-0"
FILE NAME : 19059_S201
JOB #: 19059

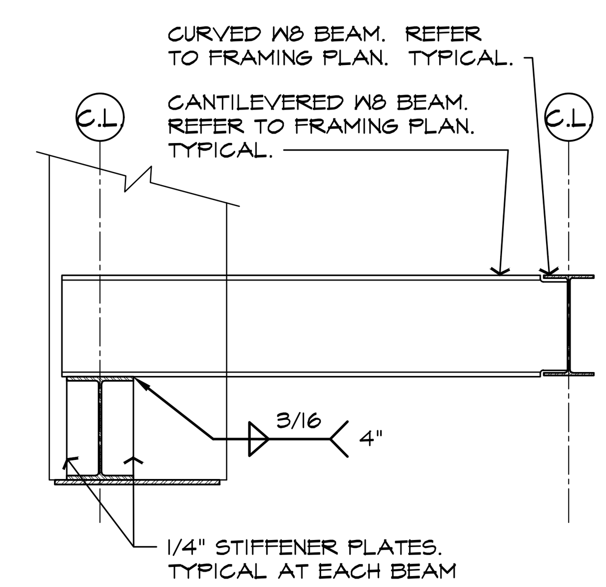
SHEET TITLE
ENLARGED STRUCTURAL PLANS AND DETAILS

SHEET #
S.201

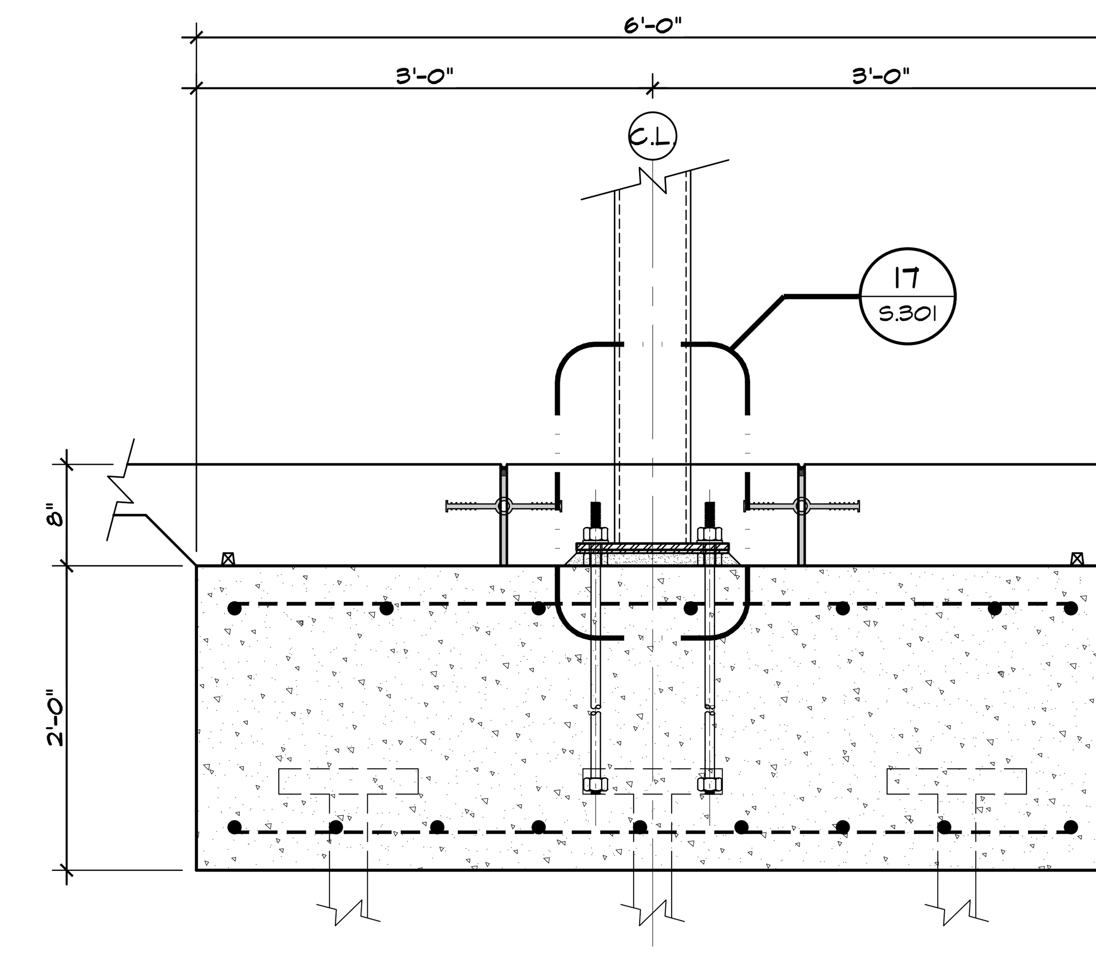
STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT



8
S.201
FD-3 SECTION
SCALE: 1"= 1'-0"



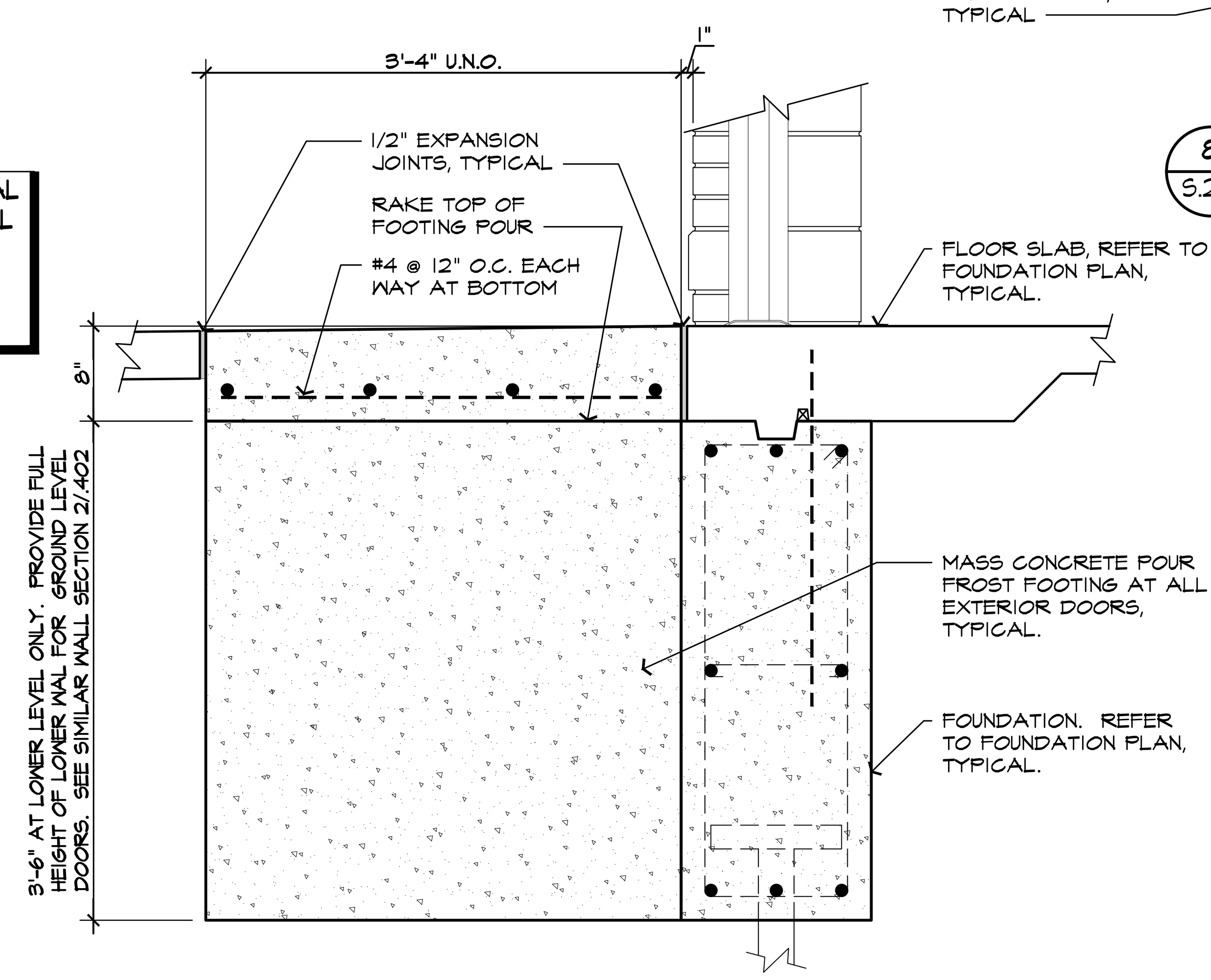
7
S.104
SECTION
SCALE: 1"= 1'-0"



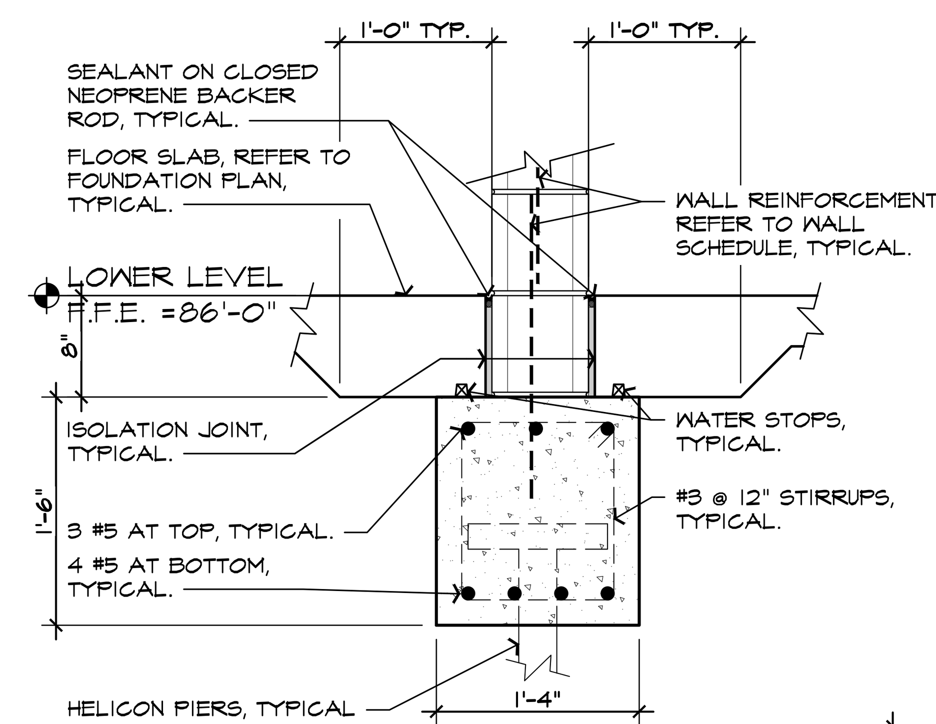
REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION NOT DEPICTED ON THESE DETAILS.

6
S.101
F-1 SECTION
SCALE: 1"= 1'-0"

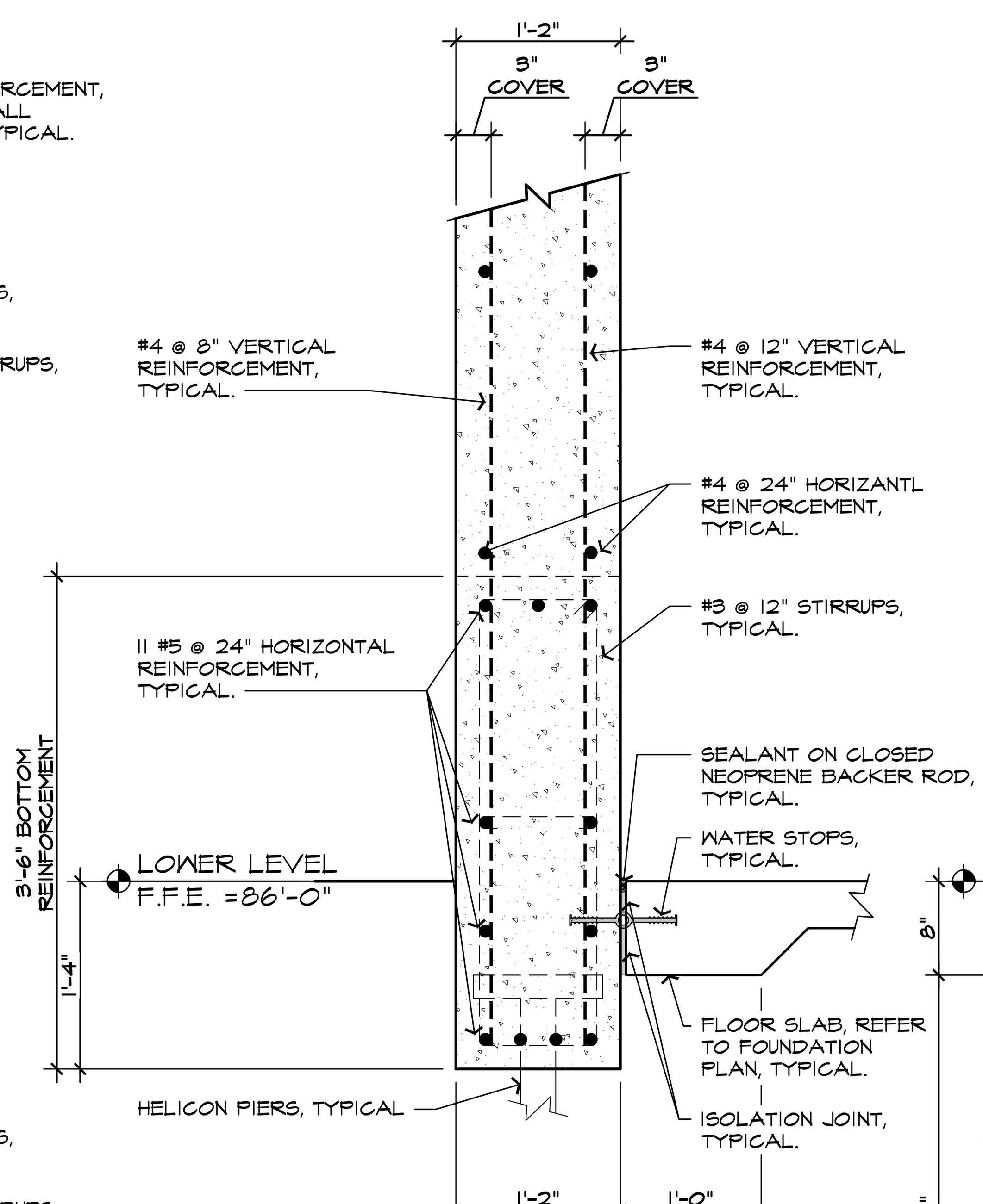
REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION NOT DEPICTED ON THESE DETAILS.



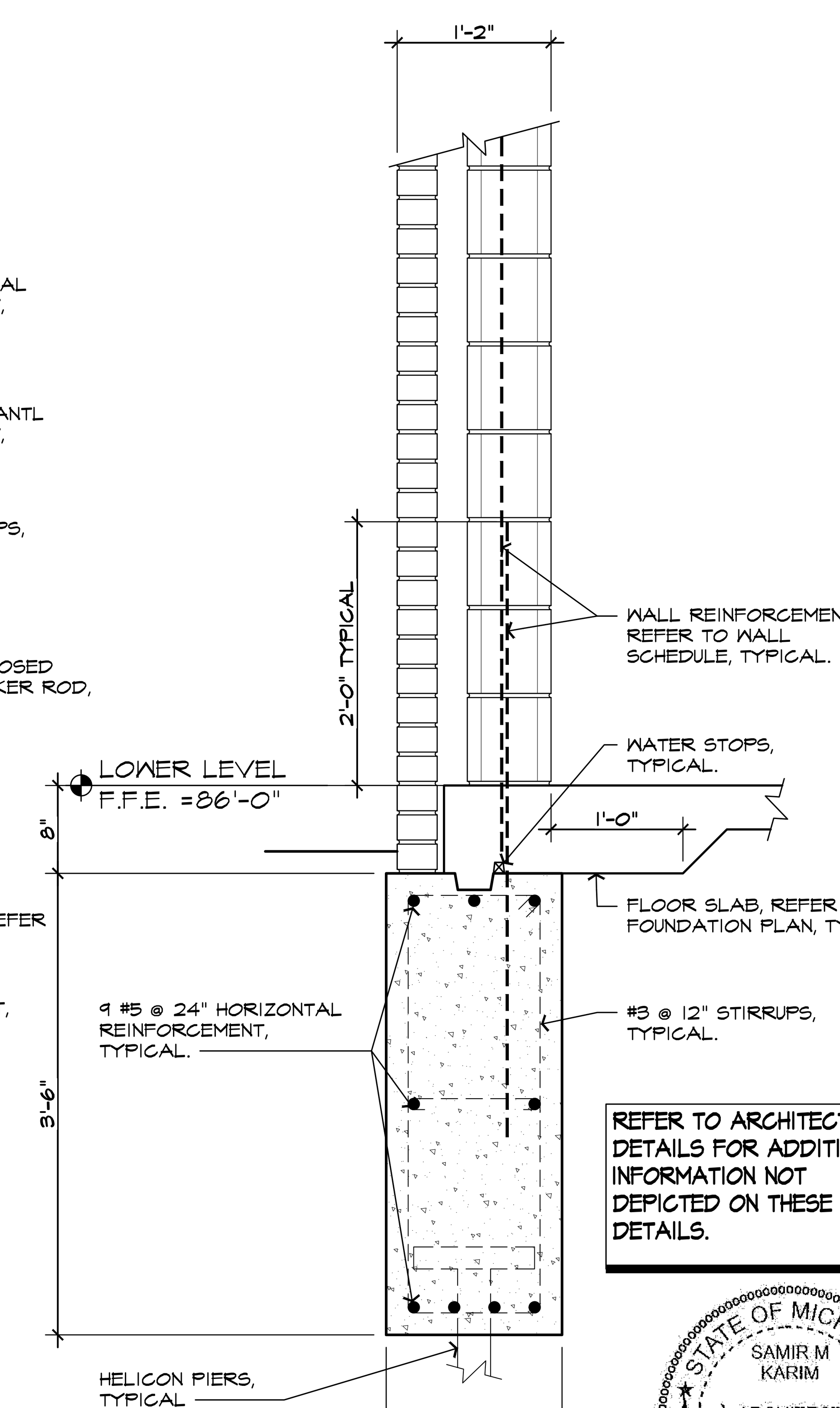
9
S.101
MASS CONCRETE FROST FOOTING SECTION - TYPICAL
SCALE: 1"= 1'-0"



4
S.101
FD-2 SECTION
SCALE: 1"= 1'-0"

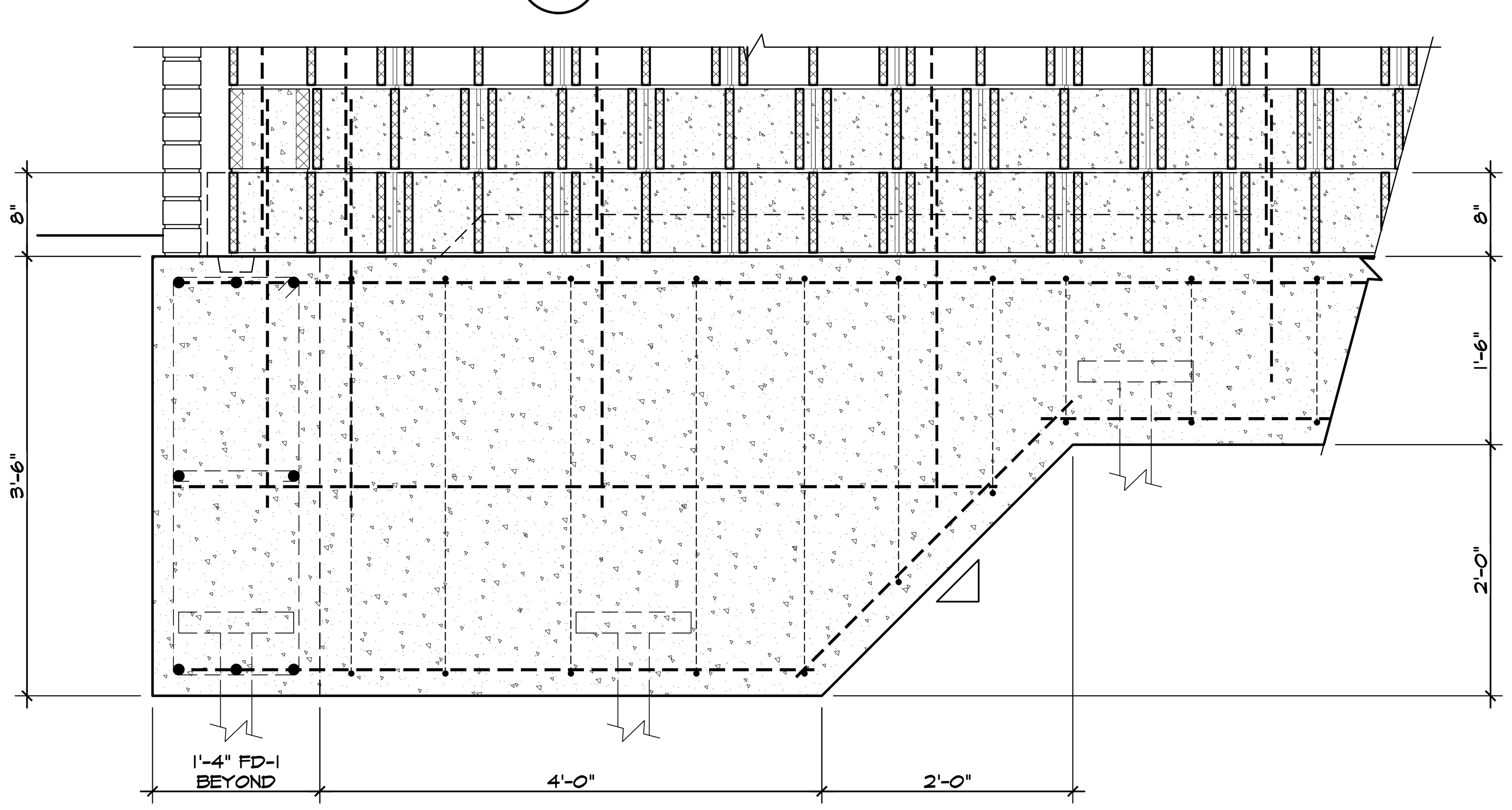


2
S.101
FD-1A SECTION
SCALE: 1"= 1'-0"

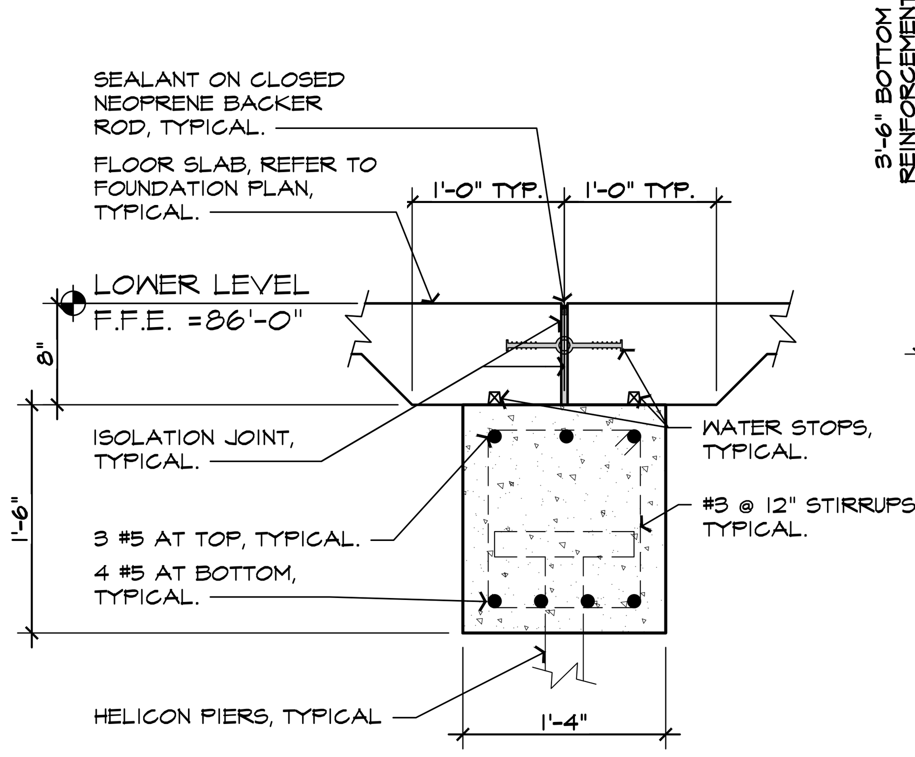


REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION NOT DEPICTED ON THESE DETAILS.

1
S.101
FD-1 SECTION
SCALE: 1"= 1'-0"



5
S.101
STEP FOOTING SECTION
SCALE: 1"= 1'-0"



3
S.101
FD-2 SECTION
SCALE: 1"= 1'-0"

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN

RESIDENTIAL
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INDUSTRIAL

G.A.V. ASSOCIATES, INC
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FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : 1/8" = 1'-0"

FILE NAME : 19059_S202

JOB #: 19059

SHEET TITLE
SECTIONS AND DETAILS

SHEET #
S.202

NOTES:

1. PROVIDE 1/2" EXPANSION JOINT MATERIAL NEXT EXISTING CONCRETE MASONRY MATERIAL.
2. REFER TO WALL LEGEND ON ARCHITECTURAL PLANS AND SECTIONS FOR MASONRY AND CONCRETE STEEL REINFORCEMENT.
3. REFER TO ARCHITECTURAL SECTIONS MASONRY WALLS DIMENSIONS AND COORDINATION.
4. VERIFY AND COORDINATE STEEL ANGLE FRAMING FOR MECHANICAL PENETRATION OPENING SIZE WITH MECHANICAL CONTRACTOR. PROVIDE 2 HOUR FIRE RATED MATERIAL AROUND PENETRATION.
5. COORDINATE CONCRETE FLOOR AND STEEL FRAMING WITH ELEVATOR, MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS FOR CLEARANCES.

FRAMING PLANS NOTE LEGEND:

1. 3x3x1/4 AT FLOORS AND 4x4x14 AT ROOFS PERIMETER STEEL ANGLE WITH 1/2"x3" ANCHOR BOLTS @ 24" O.C., TYPICAL AT ALL WALL BEARING DECK CONDITIONS. ALSO AROUND ALL CONCRETE FLOOR DECK EDGES, ALL FLOOR DECK OPENINGS AND ROOF METAL DECK EDGES AND OPENINGS. TYPICAL.
   PROVIDE SAME ANGLE BUT 2 BACK-TO-BACK AT DECK SPAN CHANGE OVER STEEL BEAM, CHANNEL OR JOISTS. TYPICAL.
2. REFER TO ARCHITECTURAL FLOOR PLANS FOR DOOR OPENING LOCATION.
3. COORDINATE BRIDGING WITH WALL PARTITION BELOW, TYPICAL.
4. SINGLE LINE OF BOTTOM CHORD BRIDGING NEAR THE FIRST BOTTOM CHORD PANEL POINTS (NET UPLIFT PRESSURE OF 12 Lbs/Ft^2), TYPICAL.

FLOOR / ROOF DECK

MARK	SIZE
A	FLOOR DECK: 3" CONCRETE SLAB W/ 6x6 - W1.4x W1.4 W.W.F. ON 0.6C24 NON-COMPOSITE METAL FLOOR DECK. MINIMUM 3 SPAN. SUPPORTS: - 30/4 METAL DECK - SUPPORT FASTENER: 5/8" PUDDLE WELD - SIDE LAP FASTENERS: 1-#10 TEK SCREWS
B	ROOF DECK: 1.5B22 GALVANIZED METAL ROOF DECK. SUPPORTS: - 36/3 METAL DECK - SUPPORT FASTENERS: 5/8" PUDDLE WELD - SIDE LAP FASTENERS: 4-#10 TEK SCREW

BEARING PLATE SCHEDULE

MARK	SIZE	ANCHORS
(JOISTS) BP-1	6"x8"x3/8"	2-1/2"Φ x 8" STEEL STUDS
(LINTELS) BP-2	7 1/2"x7 1/2"x1/2"	2-1/2"Φ x 8" STEEL STUDS
BP-3	10"x8"x3/8"	2-1/2"Φ x 8" STEEL STUDS
BP-4	10"x8"x1/2"	2-1/2"Φ x 8" STEEL STUDS

REFER TO ARCHITECTURAL SECTION DETAILS FOR MISCELLANEOUS CURVED GALVANIZED STEEL ANGLES AND BENT PLATES. TYPICAL.

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE	ANCHOR BOLTS
C-1	HSS 6x6x1/4	12x12x3/4	(4) 3/4x18"
C-2	HSS 6x6x3/16	12x12x5/8	(4) 3/4x18"
C-3	HSS 4x4x3/16	10x10x1/2	(4) 3/4x18"
C-4	HSS 5x2x5/16	7 1/2x7 1/2x1/2	(4) 1/2x8"
C-5	HSS 5x3x1/4	6x8x1/2	(2) 3/4x8"
C-6	HSS 5x5x3/16	11x11x1/2	(4) 3/4x18"
C-7	HSS 6x6x3/8	12x12x3/4	(4) 3/4x18"

JOISTS SCHEDULE

MARK	SIZE	REMARKS
J-1	28LH10	
J-2	18K9	
J-3	18K7	
J-4	18K6	
J-5	18K4	
J-6	14K6	
J-7	14K1	
J-8	12K5	
J-9	12K3	
J-10	12K1	
J-11	10K1	
J-12	16K4	
J-13	16K3	
J-14	16K2	
J-15	28K12	

BEAM SCHEDULE

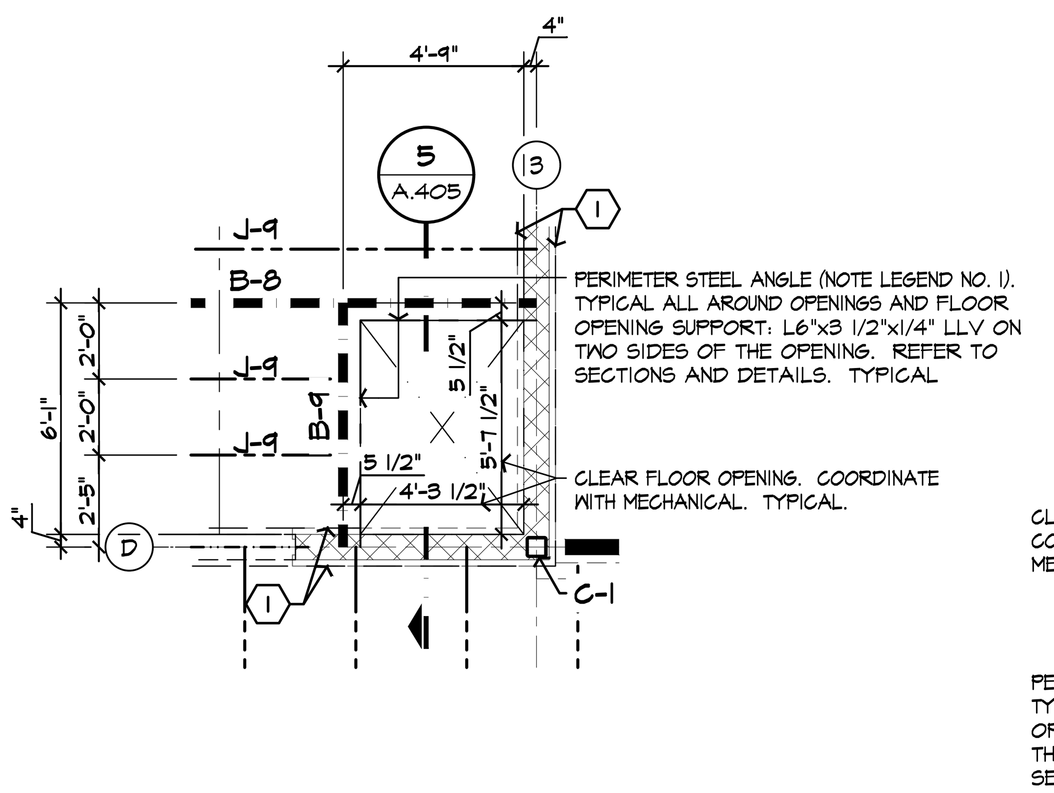
MARK	SIZE	REMARKS
B-1	W21x48	
B-2	W18x35	
B-3	W14x22	
B-4	W14x30	
B-5	W12x26	
B-6	W8x31	
B-7	W8x28	
B-8	W8x18	COORDINATE BEAMS AT STAIRS WITH STAIRS FABRICATOR
B-9	W8x10	
B-10	TS12x2x1/4	STRINGER: COORDINATE STAIRS FABRICATOR
B-11	TS8x6x5/16	
B-12	W16x36	
B-13	W12x16	
B-14	W8x31	
B-15	W21x55	
B-16	W21x44	

1. 5/8"x3 1/2" STEEL STUDS AT 10'-0" O.C. WELDED TO TOP FLANGE.
2. (C) = CURVED STEEL BEAM.

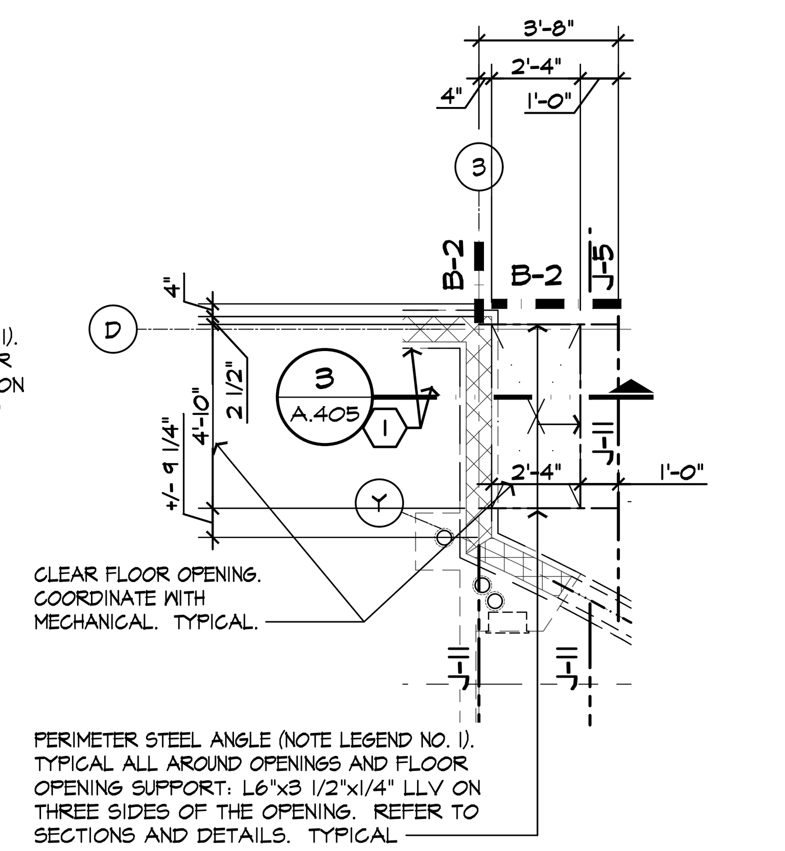
LINTELS SCHEDULE

MARK	SIZE	STEEL PLATE	BASE PLATE
L-1	W8x18		BP-2
L-2	W8x15		BP-1
L-3	W8x24		BP-2
L-4	W8x28		BP-2

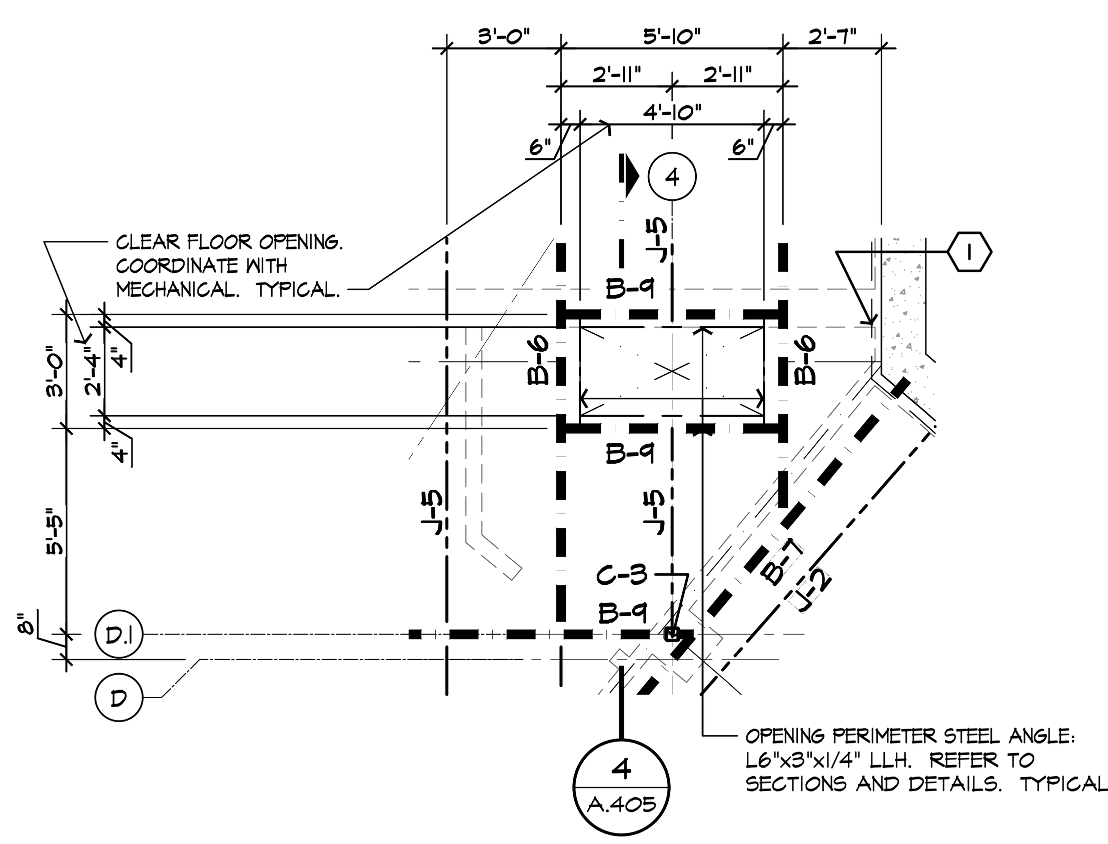
1. (C) = CURVED STEEL LINTEL.
2. * = NO PLATE.
3. U.N.O., ALL LINTELS HAVE 3/8"x 7" OR 3/8"x13" STEEL PLATE WELDED TO BOTTOM FLANGE. REFER TO FLOOR PLANS AND WALL LEGEND FOR WALL THICKNESS, TYPICAL.
4. ** = 3/8"x8 1/2" STEEL PLATE WELDED TO BOTTOM FLANGE. REFER TO ARCHITECTURAL DETAILS



6 S.102 SHAFT FRAMING PLAN
SCALE: 1/4"= 1'-0"



5 S.102 SHAFT FRAMING PLAN
SCALE: 1/4"= 1'-0"



4 S.102 SHAFT FRAMING PLAN
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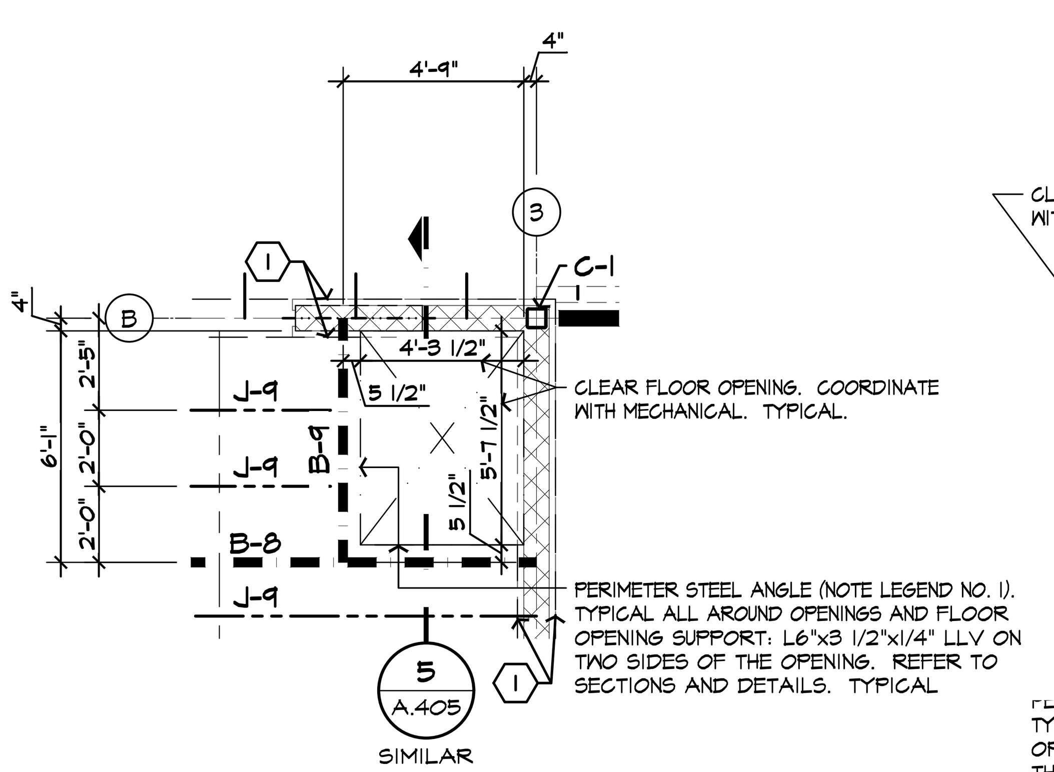
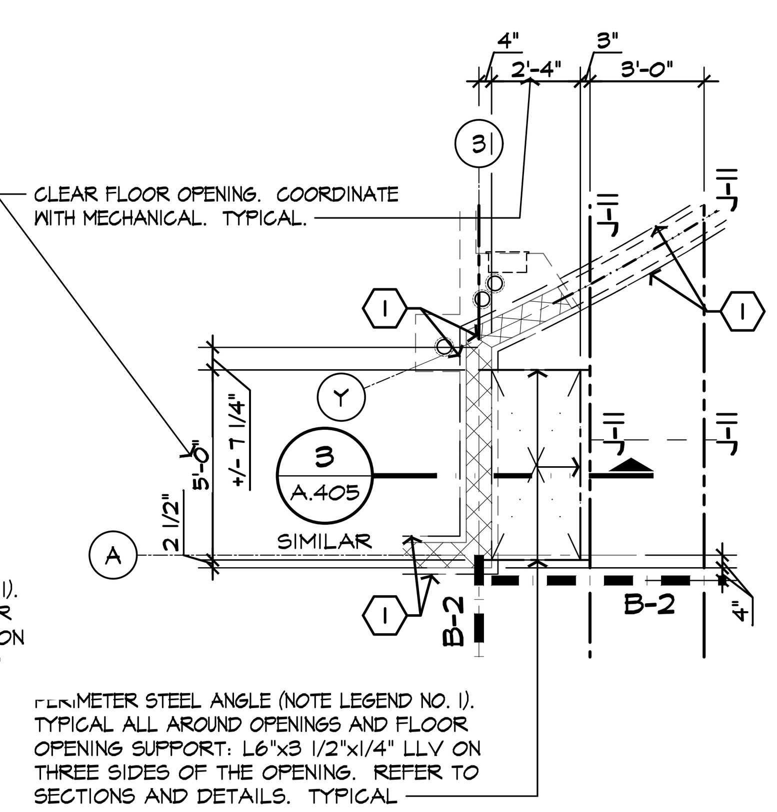
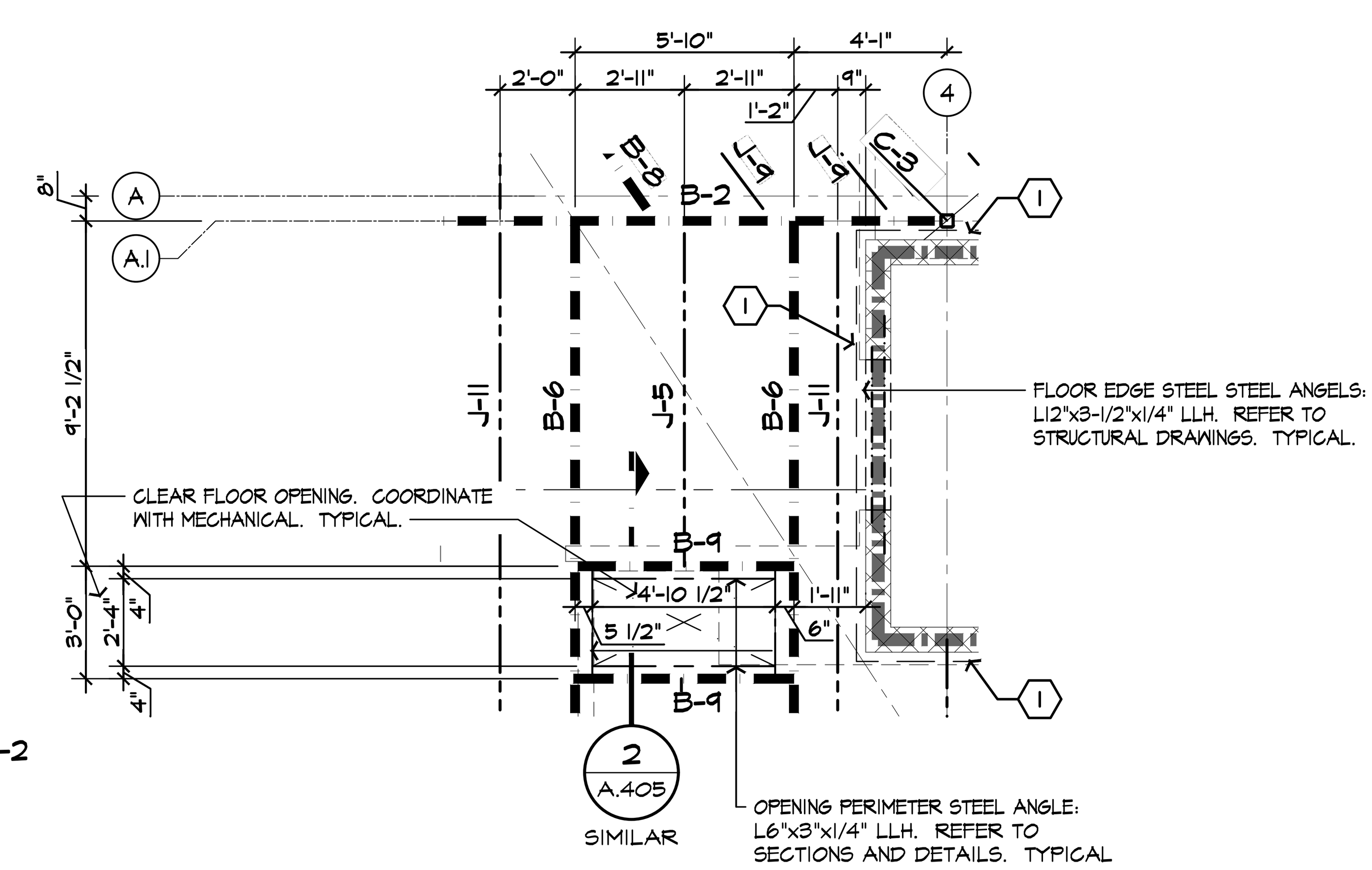


3 S.102 SHAFT FRAMING PLAN
SCALE: 1/4"= 1'-0"



B-2

2 S.102 SHAFT FRAMING PLAN
SCALE: 1/4"= 1'-0"



1 S.102 SHAFT FRAMING PLAN
SCALE: 1/4"= 1'-0"

NORTH

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

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ASSOCIATES

PROPOSED BUILDING FOR:
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3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : AS NOTED
FILE NAME : 19059_S203
JOB #: 19059
SHEET TITLE
ENLARGED FRAMING PLANS
SHEET #
S.203

FRAMING PLANS NOTE LEGEND:

1. 3x3x1/4 AT FLOORS AND 4x4x14 AT ROOFS PERIMETER STEEL ANGLE WITH 1/2"x3" ANCHOR BOLTS @ 24" O.C., TYPICAL AT ALL WALL BEARING DECK CONDITIONS. ALSO AROUND ALL CONCRETE FLOOR DECK EDGES, ALL FLOOR DECK OPENINGS AND ROOF METAL DECK EDGES AND OPENINGS. TYPICAL.
   PROVIDE SAME ANGLE BUT 2 BACK-TO-BACK AT DECK SPAN CHANGE OVER STEEL BEAM, CHANNEL OR JOISTS. TYPICAL.
2. REFER TO ARCHITECTURAL FLOOR PLANS FOR DOOR OPENING LOCATION.
3. COORDINATE BRIDGING WITH WALL PARTITION BELOW, TYPICAL.
4. SINGLE LINE OF BOTTOM CHORD BRIDGING NEAR THE FIRST BOTTOM CHORD PANEL POINTS (NET UPLIFT PRESSURE OF 12 Lbs/Ft^2), TYPICAL.
5. FIRE RATED WALL CONSTRUCTION. REFER TO LIFE SAFETY SHEET AND FLOOR PLANS, TYPICAL.
6. 6x3 1/2x3/8 LLV STEEL ANGLES: HVAC CURB STEEL SUPPORTS. COORDINATE AND VERIFY SIZE AND LOCATION WITH MECHANICAL DRAWINGS AND CONTRACTOR, TYPICAL.
7. STEEL ANGLES FOR ROOF SUMP AND OVER FLOW DRAINS. SEE TYPICAL ROOF OPENING DETAIL. REFER TO ROOF PLAN AND COORDINATE WITH MECHANICAL DRAWINGS AND CONTRACTOR.
8. STEEL ANGLES FOR ROOF ACCESS LADDER AND ROOF HATCH, SEE DETAIL 5/A.408. VERIFY CLEAR OPENING WITH ROOF HATCH MANUFACTURER, TYPICAL.

FLOOR / ROOF DECK

MARK	SIZE
A	FLOOR DECK: 3" CONCRETE SLAB W/ 6x6 - W1.4x W1.4 W.W.F. ON 0.6C24 NON-COMPOSITE METAL FLOOR DECK. MINIMUM 3 SPAN. SUPPORTS: - 30/4 METAL DECK - SUPPORT FASTENER: 5/8" PUDDLE WELD - SIDE LAP FASTENERS: 1-#10 TEK SCREWS
B	ROOF DECK: 1.5B22 GALVANIZED METAL ROOF DECK. SUPPORTS: - 36/3 METAL DECK - SUPPORT FASTENERS: 5/8" PUDDLE WELD - SIDE LAP FASTENERS: 4-#10 TEK SCREW

BEARING PLATE SCHEDULE

MARK	SIZE	ANCHORS
(JOISTS) BP-1	6"x8"x3/8"	2-1/2"Φ x 8" STEEL STUDS
(LINTELS) BP-2	7 1/2"x7 1/2"x1/2"	2-1/2"Φ x 8" STEEL STUDS
BP-3	10"x8"x3/8"	2-1/2"Φ x 8" STEEL STUDS
BP-4	10"x8"x1/2"	2-1/2"Φ x 8" STEEL STUDS

REFER TO ARCHITECTURAL SECTION DETAILS FOR MISCELLANEOUS CURVED GALVANIZED STEEL ANGLES AND BENT PLATES. TYPICAL.

NOTES:

1. PROVIDE 1/2" EXPANSION JOINT MATERIAL NEXT EXISTING CONCRETE MASONRY MATERIAL.
2. REFER TO WALL LEGEND ON ARCHITECTURAL PLANS AND SECTIONS FOR MASONRY AND CONCRETE STEEL REINFORCEMENT.
3. REFER TO ARCHITECTURAL SECTIONS MASONRY WALLS DIMENSIONS AND COORDINATION.
4. VERIFY AND COORDINATE STEEL ANGLE FRAMING FOR MECHANICAL PENETRATION OPENING SIZE WITH MECHANICAL CONTRACTOR. PROVIDE 2 HOUR FIRE RATED MATERIAL AROUND PENETRATION.
5. COORDINATE CONCRETE FLOOR AND STEEL FRAMING WITH ELEVATOR, MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS FOR CLEARANCES.

LINTELS SCHEDULE

MARK	SIZE	STEEL PLATE	BASE PLATE
L-1	W8x18		BP-2
L-2	W8x15		BP-1
L-3	W8x24		BP-2
L-4	W8x28		BP-2

1. (C) = CURVED STEEL LINTEL.
2. * = NO PLATE.
3. U.N.O., ALL LINTELS HAVE 3/8"x 7" OR 3/8"x13" STEEL PLATE WELDED TO BOTTOM FLANGE. REFER TO FLOOR PLANS AND WALL LEGEND FOR WALL THICKNESS, TYPICAL.
4. ** = 3/8"x8 1/2" STEEL PLATE WELDED TO BOTTOM FLANGE. REFER TO ARCHITECTURAL DETAILS

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE	ANCHOR BOLTS
C-1	HSS 6x6x1/4	12x12x3/4	(4) 3/4x18"
C-2	HSS 6x6x3/16	12x12x5/8	(4) 3/4x18"
C-3	HSS 4x4x3/16	10x10x1/2	(4) 3/4x18"
C-4	HSS 5x2x5/16	7 1/2x7 1/2x1/2	(4) 1/2x8"
C-5	HSS 5x3x1/4	6x8x1/2	(2) 3/4x8"
C-6	HSS 5x5x3/16	11x11x1/2	(4) 3/4x18"
C-7	HSS 6x6x3/8	12x12x3/4	(4) 3/4x18"

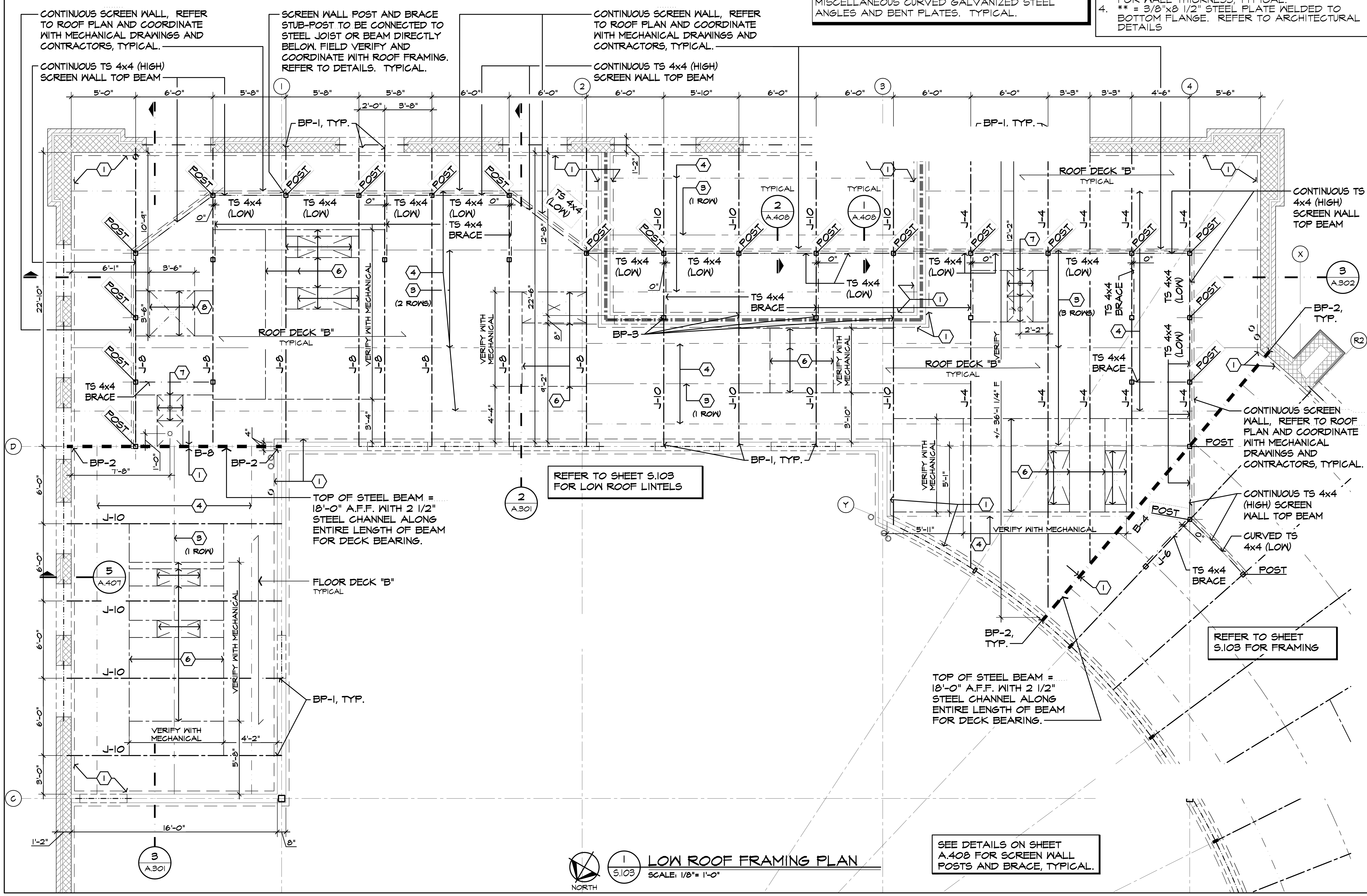
JOISTS SCHEDULE

MARK	SIZE	REMARKS
J-1	28LH10	
J-2	18K9	
J-3	18K7	
J-4	18K6	
J-5	18K4	
J-6	14K6	
J-7	14K1	
J-8	12K5	
J-9	12K3	
J-10	12K1	
J-11	10K1	
J-12	16K4	
J-13	16K3	
J-14	16K2	
J-15	28K12	

BEAM SCHEDULE

MARK	SIZE	REMARKS
B-1	W21x48	
B-2	W18x35	
B-3	W14x22	
B-4	W14x30	
B-5	W12x26	
B-6	W8x31	
B-7	W8x28	
B-8	W8x18	COORDINATE BEAMS AT STAIRS WITH STAIRS FABRICATOR
B-9	W8x10	
B-10	TS12x2x1/4	STRINGER: COORDINATE STAIRS FABRICATOR
B-11	TS8x6x5/16	
B-12	W16x36	
B-13	W12x16	
B-14	W8x31	
B-15	W21x55	
B-16	W21x44	

1. 5/8"x3 1/2" STEEL STUDS AT 10'-0" O.C. WELDED TO TOP FLANGE.
2. (C) = CURVED STEEL BEAM.



1 S.103 LOW ROOF FRAMING PLAN
SCALE: 1/8"= 1'-0"

GENERAL TOP OF STEEL = 118'-2 1/2" U.N.O
PROVIDE A 2 1/2"x4"x3/16" LLH GALVANIZED CONTINUOUS STEEL BENT PLATE OVER STEEL BEAMS / GIRDERS AS NEEDED TO MATCH BOTTOM OF FLOOR / ROOF DECK. REFER TO ARCHITECTURAL SECTION DETAILS.

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN
RESIDENTIAL
COMMERCIAL
INDUSTRIAL
G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM
GAV ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SS4	DG	DG

SCALE : AS NOTED

FILE NAME : 19059_S204

JOB #: 19059

SHEET TITLE

ENLARGED FRAMING PLANS

SHEET #

S.204

FRAMING PLANS NOTE LEGEND:

1. 3x3x1/4 AT FLOORS AND 4x4x14 AT ROOFS PERIMETER STEEL ANGLE WITH 1/2"x3" ANCHOR BOLTS @ 24" O.C., TYPICAL AT ALL WALL BEARING DECK CONDITIONS. ALSO AROUND ALL CONCRETE FLOOR DECK EDGES, ALL FLOOR DECK OPENINGS AND ROOF METAL DECK EDGES AND OPENINGS. TYPICAL.
   PROVIDE SAME ANGLE BUT 2 BACK-TO-BACK AT DECK SPAN CHANGE OVER STEEL BEAM, CHANNEL OR JOISTS. TYPICAL.
2. REFER TO ARCHITECTURAL FLOOR PLANS FOR DOOR OPENING LOCATION.
3. COORDINATE BRIDGING WITH WALL PARTITION BELOW, TYPICAL.
4. SINGLE LINE OF BOTTOM CHORD BRIDGING NEAR THE FIRST BOTTOM CHORD PANEL POINTS (NET UPLIFT PRESSURE OF 12 Lbs/Ft^2), TYPICAL.
5. FIRE RATED WALL CONSTRUCTION. REFER TO LIFE SAFETY SHEET AND FLOOR PLANS, TYPICAL.
6. 6x3 1/2x3/8 LLV STEEL ANGLES: HVAC CURB STEEL SUPPORTS. COORDINATE AND VERIFY SIZE AND LOCATION WITH MECHANICAL DRAWINGS AND CONTRACTOR, TYPICAL.
7. STEEL ANGLES FOR ROOF SUMP AND OVER FLOW DRAINS. SEE TYPICAL ROOF OPENING DETAIL. REFER TO ROOF PLAN AND COORDINATE WITH MECHANICAL DRAWINGS AND CONTRACTOR.
8. STEEL ANGLES FOR ROOF ACCESS LADDER AND ROOF HATCH, SEE DETAIL 5/A.408. VERIFY CLEAR OPENING WITH ROOF HATCH MANUFACTURER, TYPICAL.

FLOOR / ROOF DECK

MARK	SIZE
A	FLOOR DECK: 3" CONCRETE SLAB W/ 6x6 - W1.4x W1.4 W.W.F. ON 0.6C24 NON-COMPOSITE METAL FLOOR DECK. MINIMUM 3 SPAN. SUPPORTS: - 30/4 METAL DECK - SUPPORT FASTENER: 5/8" PUDDLE WELD - SIDE LAP FASTENERS: 1-#10 TEK SCREWS
B	ROOF DECK: 1.5B22 GALVANIZED METAL ROOF DECK. SUPPORTS: - 36/3 METAL DECK - SUPPORT FASTENERS: 5/8" PUDDLE WELD - SIDE LAP FASTENERS: 4-#10 TEK SCREW

BEARING PLATE SCHEDULE

MARK	SIZE	ANCHORS
(JOISTS) BP-1	6"x8"x3/8"	2-1/2"Φ x 8" STEEL STUDS
(LINTELS) BP-2	7 1/2"x7 1/2"x1/2"	2-1/2"Φ x 8" STEEL STUDS
BP-3	10"x8"x3/8"	2-1/2"Φ x 8" STEEL STUDS
BP-4	10"x8"x1/2"	2-1/2"Φ x 8" STEEL STUDS

REFER TO ARCHITECTURAL SECTION DETAILS FOR MISCELLANEOUS CURVED GALVANIZED STEEL ANGLES AND BENT PLATES. TYPICAL.

NOTES:

1. PROVIDE 1/2" EXPANSION JOINT MATERIAL NEXT EXISTING CONCRETE MASONRY MATERIAL.
2. REFER TO WALL LEGEND ON ARCHITECTURAL PLANS AND SECTIONS FOR MASONRY AND CONCRETE STEEL REINFORCEMENT.
3. REFER TO ARCHITECTURAL SECTIONS MASONRY WALLS DIMENSIONS AND COORDINATION.
4. VERIFY AND COORDINATE STEEL ANGLE FRAMING FOR MECHANICAL PENETRATION OPENING SIZE WITH MECHANICAL CONTRACTOR. PROVIDE 2 HOUR FIRE RATED MATERIAL AROUND PENETRATION.
5. COORDINATE CONCRETE FLOOR AND STEEL FRAMING WITH ELEVATOR, MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS FOR CLEARANCES.

LINTELS SCHEDULE

MARK	SIZE	STEEL PLATE	BASE PLATE
L-1	W8x18		BP-2
L-2	W8x15		BP-1
L-3	W8x24		BP-2
L-4	W8x28		BP-2

1. (C) = CURVED STEEL LINTEL.
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3. U.N.O., ALL LINTELS HAVE 3/8"x 7" OR 3/8"x13" STEEL PLATE WELDED TO BOTTOM FLANGE. REFER TO FLOOR PLANS AND WALL LEGEND FOR WALL THICKNESS, TYPICAL.
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COLUMN SCHEDULE

MARK	SIZE	BASE PLATE	ANCHOR BOLTS
C-1	HSS 6x6x1/4	12x12x3/4	(4) 3/4x18"
C-2	HSS 6x6x3/16	12x12x5/8	(4) 3/4x18"
C-3	HSS 4x4x3/16	10x10x1/2	(4) 3/4x18"
C-4	HSS 5x2x5/16	7 1/2x7 1/2x1/2	(4) 1/2x8"
C-5	HSS 5x3x1/4	6x8x1/2	(2) 3/4x8"
C-6	HSS 5x5x3/16	11x11x1/2	(4) 3/4x18"
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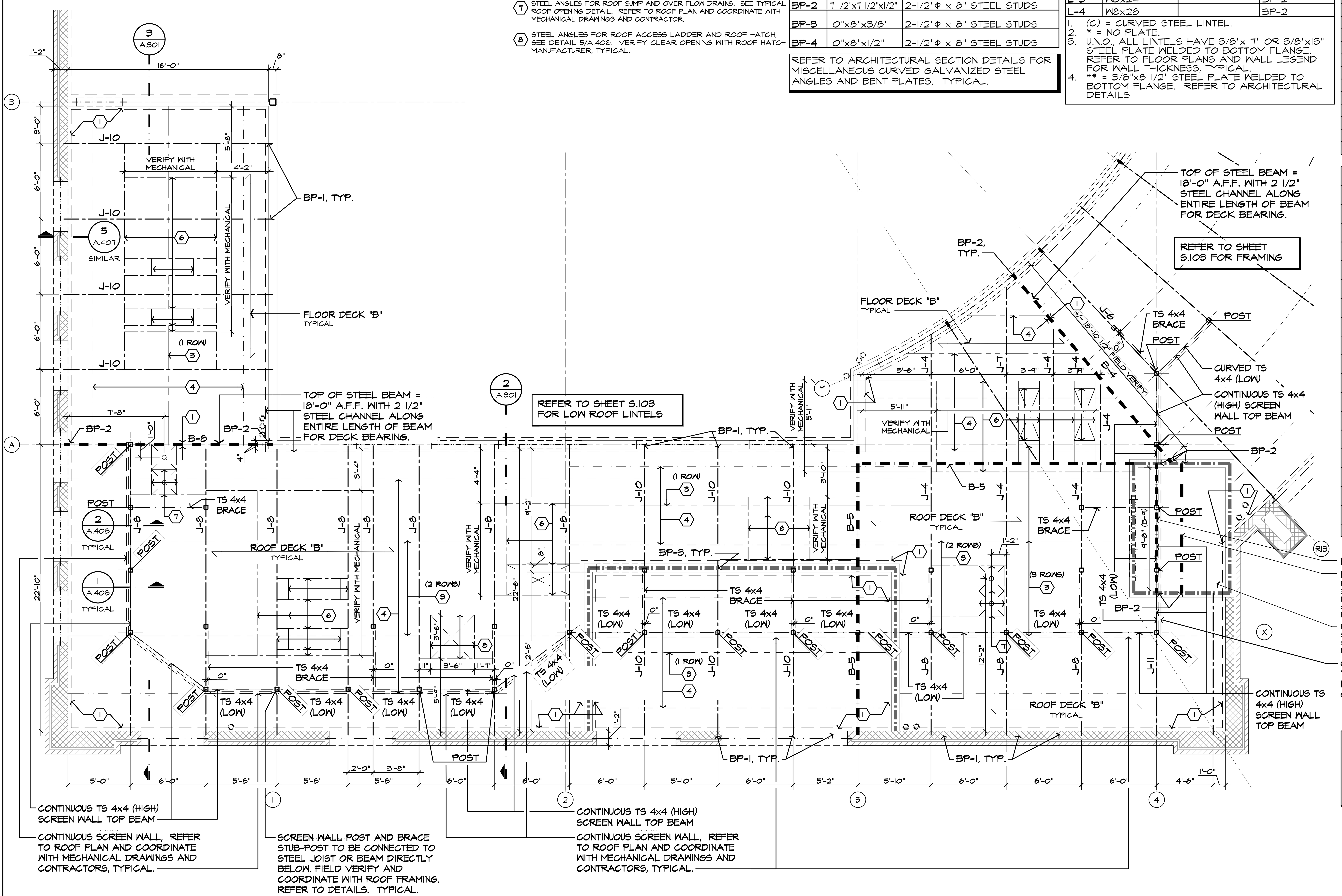
JOISTS SCHEDULE

MARK	SIZE	REMARKS
J-1	28LH10	
J-2	18K9	
J-3	18K7	
J-4	18K6	
J-5	18K4	
J-6	14K6	
J-7	14K1	
J-8	12K5	
J-9	12K3	
J-10	12K1	
J-11	10K1	
J-12	16K4	
J-13	16K3	
J-14	16K2	
J-15	28K12	

BEAM SCHEDULE

MARK	SIZE	REMARKS
B-1	W21x48	
B-2	W18x35	
B-3	W14x22	
B-4	W14x30	
B-5	W12x26	
B-6	W8x31	
B-7	W8x28	
B-8	W8x18	COORDINATE BEAMS AT STAIRS WITH STAIRS FABRICATOR
B-9	W8x10	
B-10	TS12x2x1/4	STRINGER: COORDINATE STAIRS FABRICATOR
B-11	TS8x6x5/16	
B-12	W16x36	
B-13	W12x16	
B-14	W8x31	
B-15	W21x55	
B-16	W21x44	

1. 5/8"x3 1/2" STEEL STUDS AT 10'-0" O.C. WELDED TO TOP FLANGE.
2. (C) = CURVED STEEL BEAM.



LOW ROOF FRAMING PLAN
SCALE: 1/8"= 1'-0"

GENERAL TOP OF STEEL = 118'-2 1/2" U.N.O
PROVIDE A 2 1/2"x4"x3/16" LLH GALVANIZED CONTINUOUS STEEL BENT PLATE OVER STEEL BEAMS / GIRDERS AS NEEDED TO MATCH BOTTOM OF FLOOR / ROOF DECK. REFER TO ARCHITECTURAL SECTION DETAILS.

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN
RESIDENTIAL COMMERCIAL INDUSTRIAL

G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

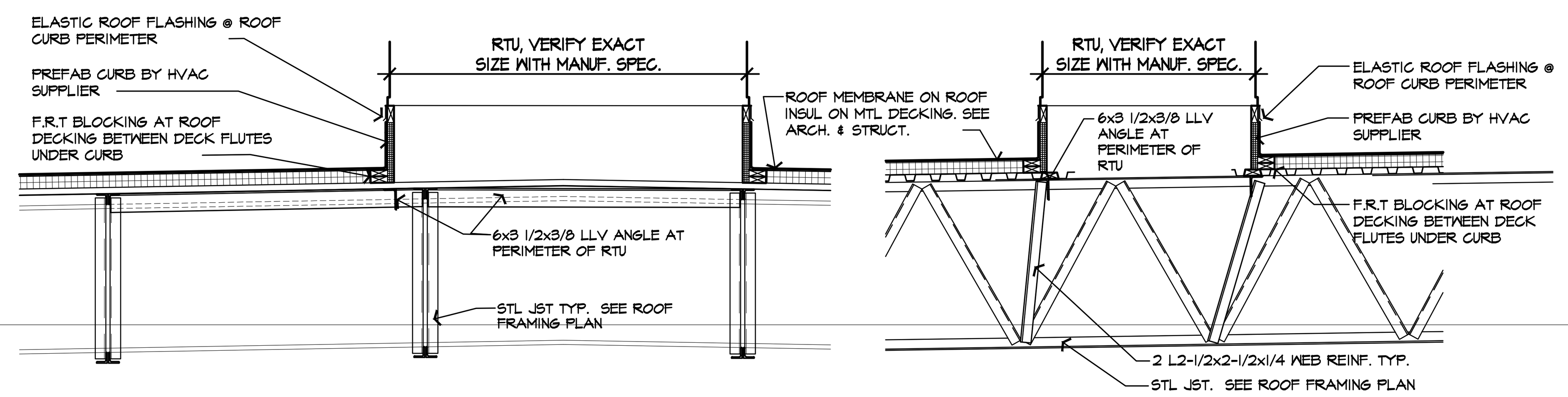
GAV ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

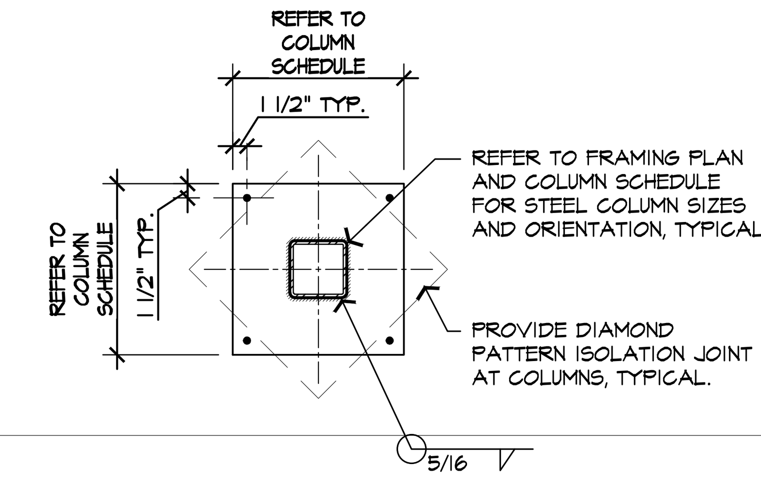
SCALE : AS NOTED
FILE NAME : 19059_S205
JOB #: 19059
SHEET TITLE
ENLARGED FRAMING PLANS
SHEET #
S.205

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT



21 / S.104 TYPICAL ROOFTOP MECH UNIT SUPPORT DETAIL
NOT TO SCALE

REFER TO FRAMING PLAN AND DETAILS FOR ADDITIONAL REQUIREMENTS THAT ARE NOT DEPICTED ON THESE DETAILS.



18 / S.104 TYPICAL BASE PLATE DETAIL
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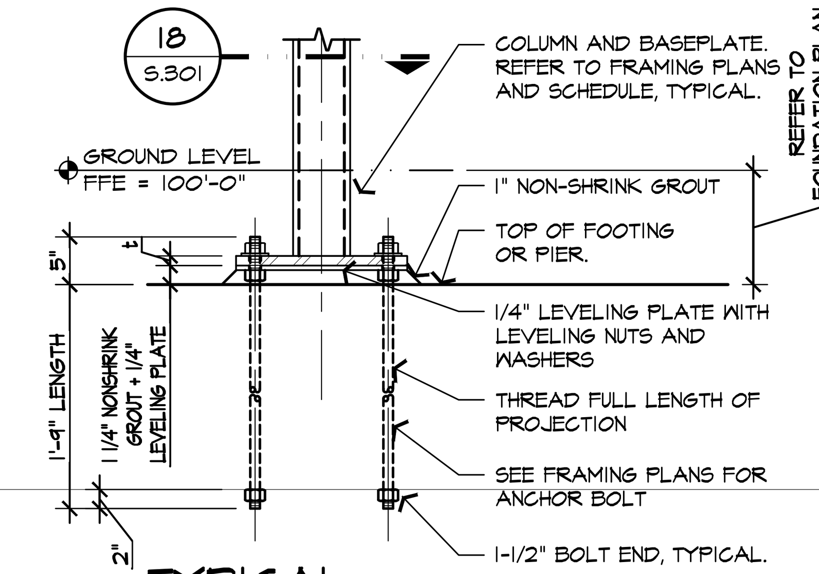

17 / S.104 TYPICAL BASE PLATE DETAIL
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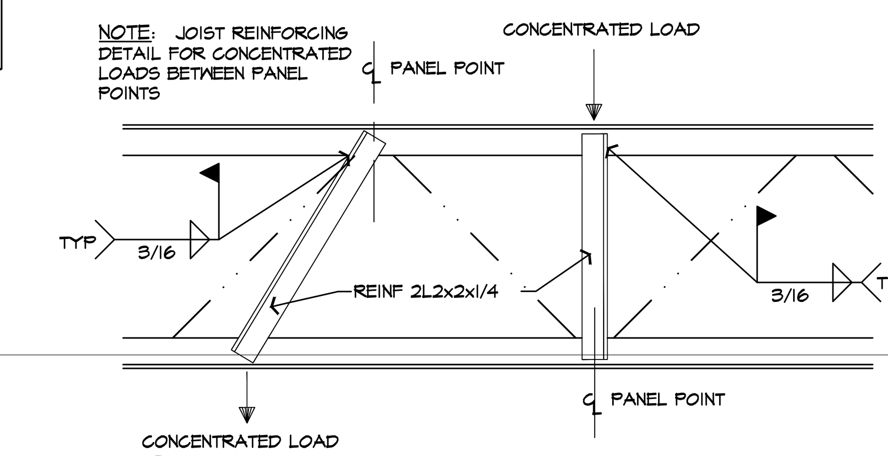

16 / S.104 TYPICAL DETAIL
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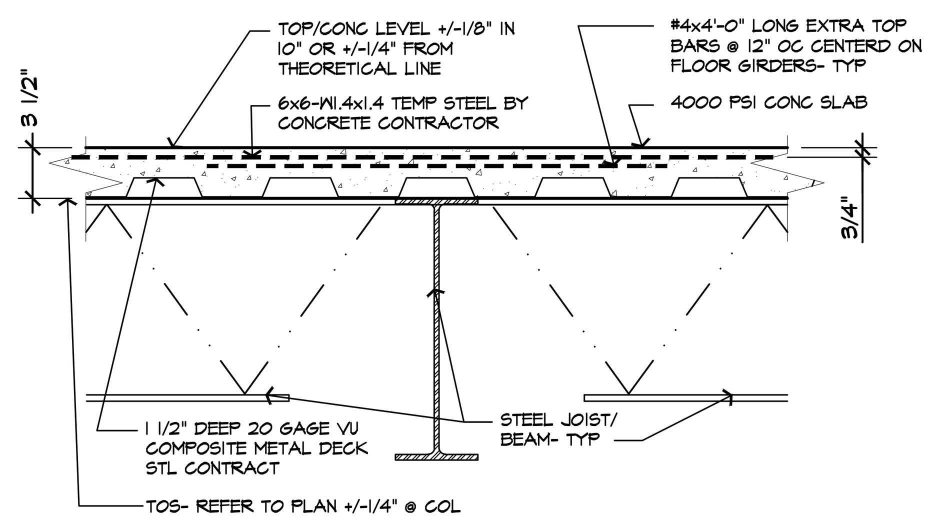
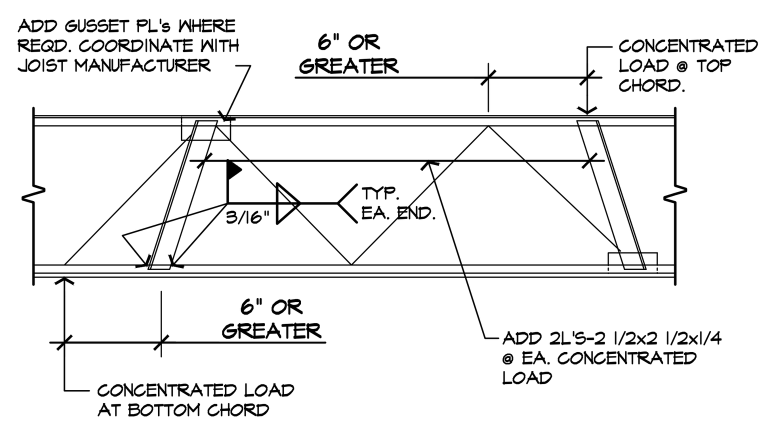
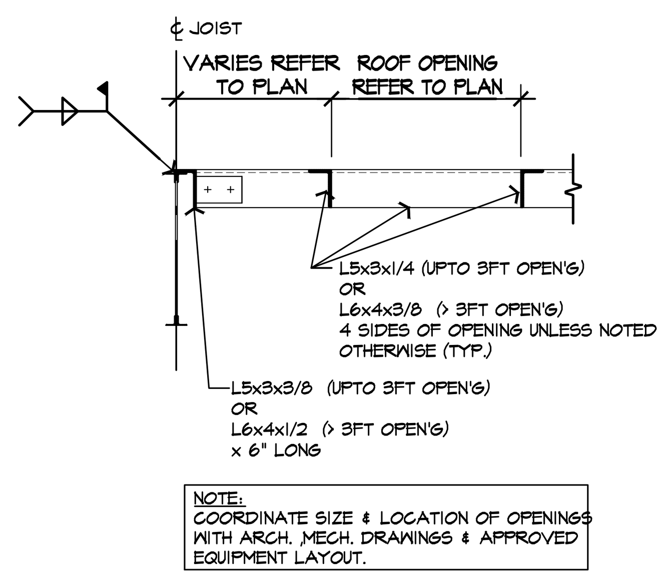


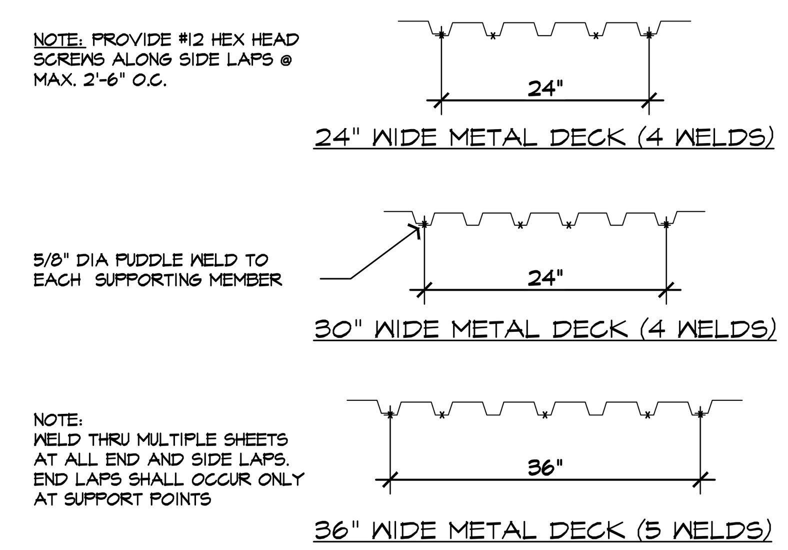
15 / S.104 TYPICAL SUPPORTED SLAB DETAIL
NOT TO SCALE



14 / S.104 TYPICAL JOIST REINFORCING AT CONCENTRATED LOAD
NOT TO SCALE



13 / S.104 TYPICAL ROOF OPENING DETAIL
NOT TO SCALE



12 / S.104 METAL ROOF DECK ATTACHMENT DETAIL
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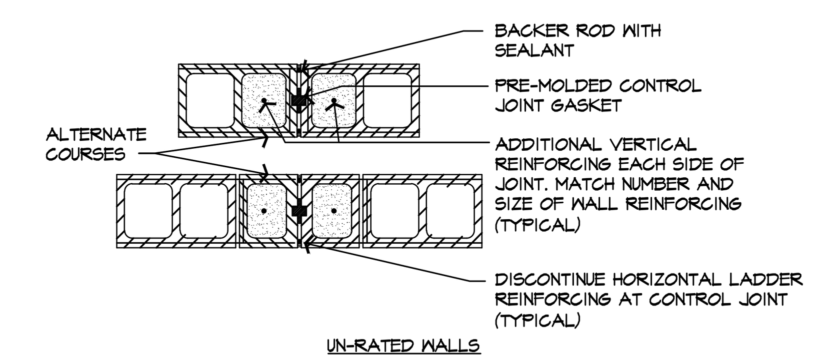
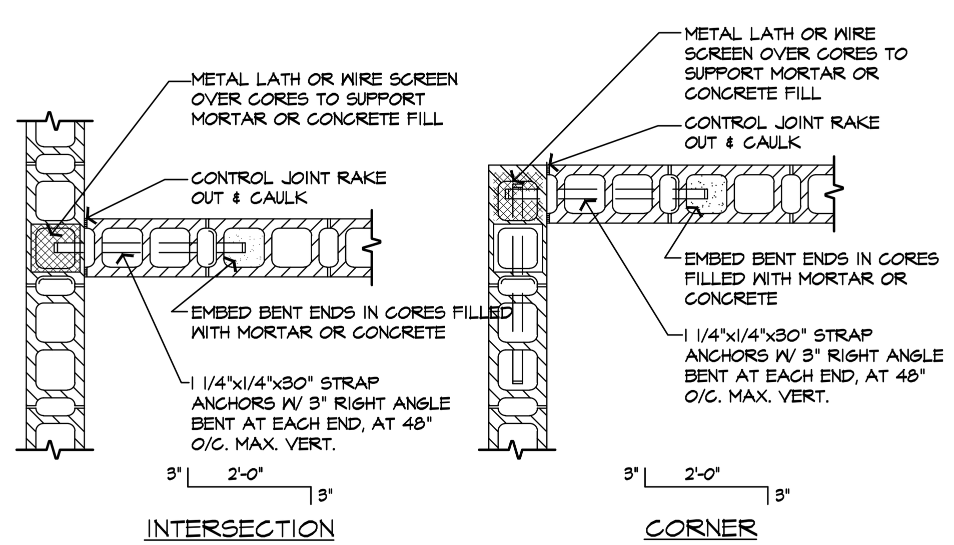
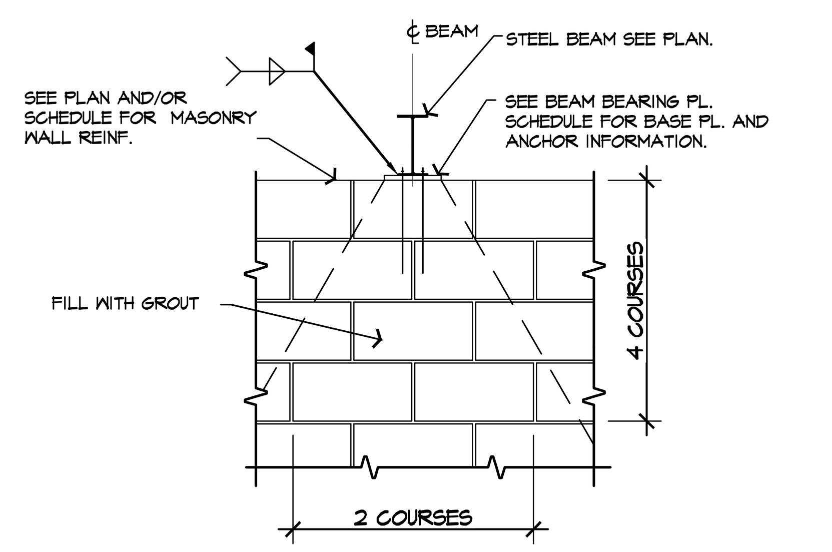


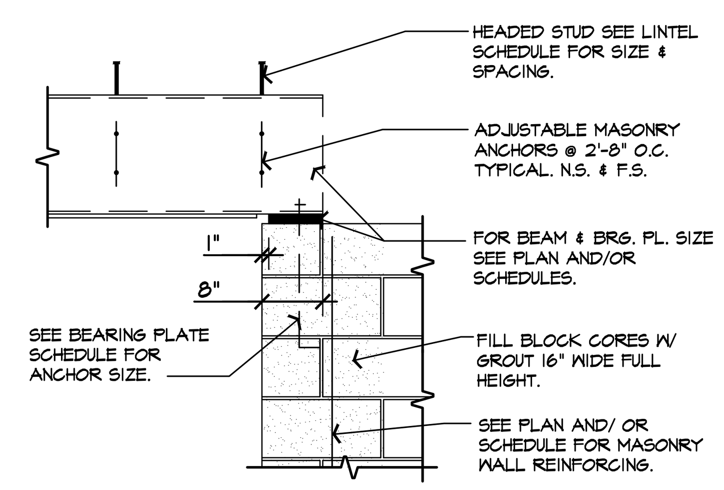
6 / S.104 TYPICAL MASONRY CONTROL JOINT
NOT TO SCALE



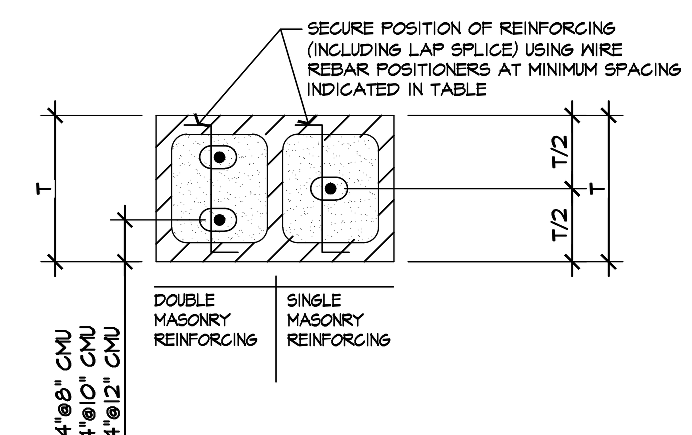
11 / S.104 TYPICAL PLANS DETAILS @ CMU WALL
NOT TO SCALE



10 / S.104 TYPICAL GROUTING OF MASONRY WALL AT STEEL BEAM BEARING
NOT TO SCALE



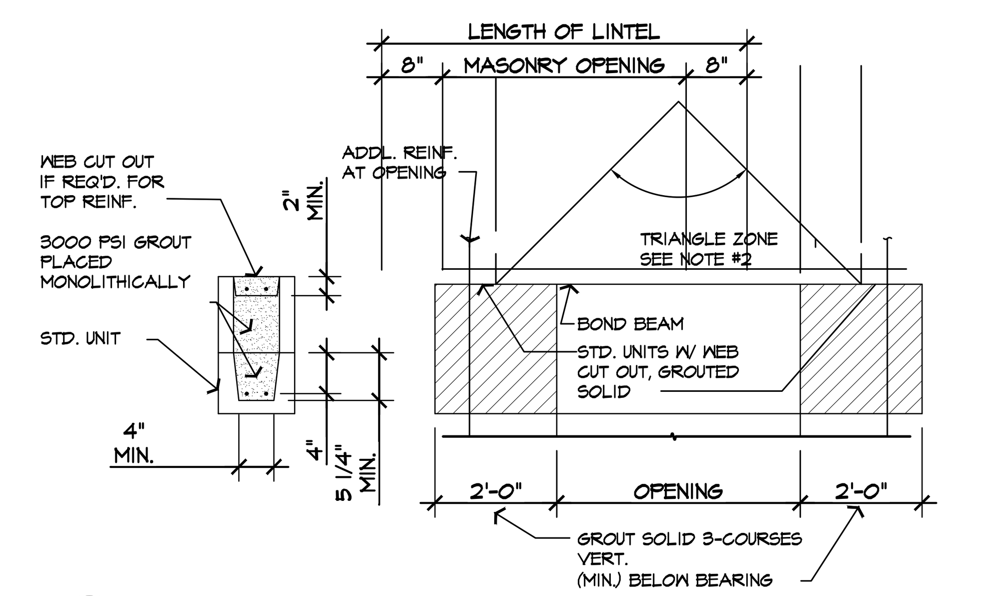
9 / S.104 TYPICAL LINTEL BEARING DETAIL
NOT TO SCALE



REBAR POSITIONER SPACING

BAR SIZE	MAX. VERT. SPACING
#4	56 INCHES
#5	64 INCHES
#6	80 INCHES

8 / S.104 TYPICAL WALL REINFORCING
NOT TO SCALE

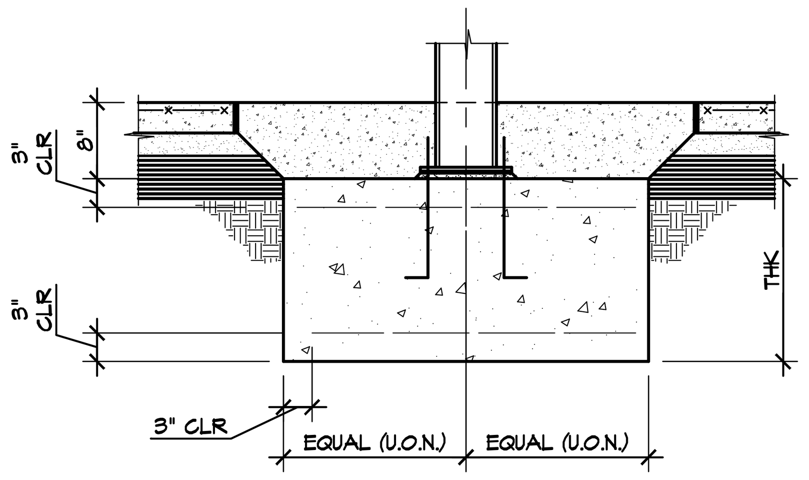


7 / S.104 TYP. MASONRY LINTEL DETAIL
NOT TO SCALE

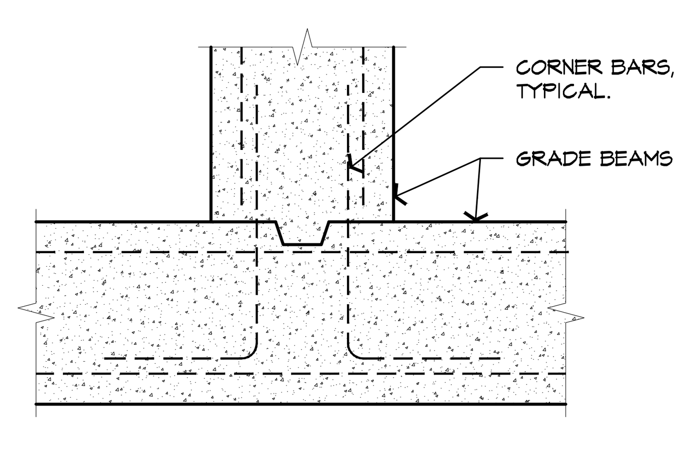
NOTES:

1. PLACE LINTEL BEAMS CENTERED ON BLOCK, U.N.O.
2. ALL EXTERIOR LINTEL PLATES AND ANGLES TO BE GALVANIZED (G90 COATING)
3. LINTELS NOT SPECIFICALLY SIZED BY DRAWINGS AND DETAIL SECTIONS SHALL COMPLY WITH THE FOLLOWING:
   a. WALLS OR VENEERS OF 4" OR LESS IN THICKNESS:
      1. 5 x 3 1/2 x 3/8 L.L.V. (EXT. WALLS).
   b. WALLS 8" OR MORE IN THICKNESS (FOR EA. 4" WIDTH OF MASONRY THICKNESS): STITCH WELD DOUBLE ANGLES TOGETHER @ 12" O.C. MAX. TOP & BOTTOM.
      1. UP TO 4'-0" WIDE OPENING: IL 3 1/2 x 4 x 5/16 LLV.
      2. OVER 4'-0" UP TO 7'-0" WIDE OPENING: IL 3 1/2 x 5 x 5/16 LLV.
      3. OVER 7'-0" WIDE OPENING: STRUCTURAL LINTEL REQUIRED.
   c. ABOVE LINTELS TO HAVE 8" BEARING @ EACH END.

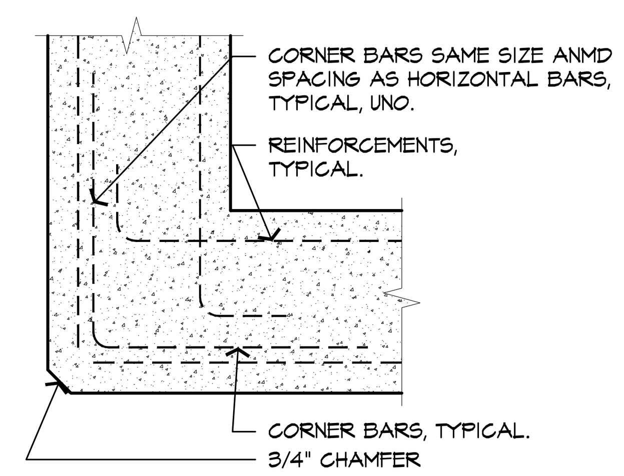
REFER TO FOUNDATION PLAN AND OTHER DETAILS FOR ADDITIONAL REQUIREMENTS THAT ARE NOT DEPICTED ON THESE DETAILS SUCH AS, BUT LIMITED TO, WATER STOPS AND WATER PROOFING.



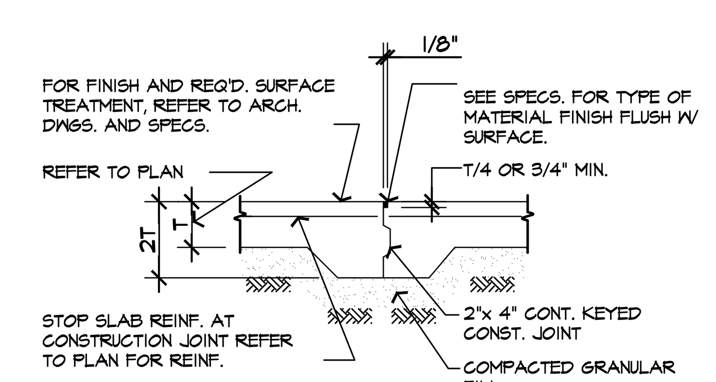
5 / S.104 FOOTING WITHOUT PIER CURB PERPENDICULAR TO JOIST
NOT TO SCALE



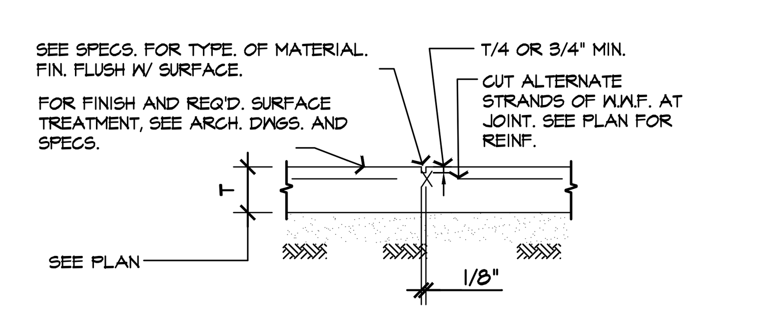
4 / S.104 TYPICAL INTERSECTION OF TWO GRADE BEAMS
NOT TO SCALE



3 / S.104 TYPICAL INTERSECTION OF TWO GRADE BEAMS
NOT TO SCALE



2 / S.104 TYPICAL SLAB CONSTRUCTION JOINT
NOT TO SCALE



1 / S.104 TYPICAL SLAB CONTROL JOINT
NOT TO SCALE

STATE OF MICHIGAN
SAMIR M KARIM
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DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : AS NOTED
FILE NAME : 19059_S301
JOB #: 19059
SHEET TITLE
SECTIONS AND DETAILS
SHEET #
S.301

ABBREVIATIONS

A.L.	ACOUSTICAL LINING
B.V.	BALANCING VALVE
C.D.	CEILING DIFFUSER
C.F.M.	CUBIC FEET PER MINUTE
C.I.	CAST IRON
C.O.	CLEAN OUT
DPR.	DAMPER
D.F.	DRINKING FOUNTAIN
D.W.S.	DRINKING WATER SUPPLY
D.W.R.	DRINKING WATER RETURN
E.F.	EXHAUST FAN
ER-#	EXHAUST REGISTER
EWC	ELECTRIC WATER COOLER
F.D.	FLOOR DRAIN
F.DPR.	FIRE DAMPER
H.B.	HOSE BIBB
H.O.	HUB OUTLET
I.E.	INVERT ELEVATION
I.W.	INDIRECT WASTE
LAV.	LAVATORY
LD-#	LINEAR SUPPLY AIR DIFFUSER
LR-#	LINEAR RETURN AIR DIFUSER
O.A.	OUTSIDE AIR
O.B.D.	OPPOSED BLADE DAMPER
O.E.D.	OPEN END DUCT
P.H.	PHYSICAL HANDICAPPED
P.REL.V.	PRESSURE RELIEF VALVE
P-1	PUMP #1
R.A.	RETURN AIR
R.C.	RAIN CONDUCTOR
RG -#	RETURN AIR GRILLE
R.P.B.P.	REDUCED PRESSURE BACKFLOW PREVENTER
RR-#	RETURN AIR REGISTER
R.S.	ROOF SUMP
S.A.	SUPPLY AIR
SD-#	SUPPLY DIFFUSER
SR-#	SUPPLY REGISTER
SAN.	SANITARY
S.S.	SERVICE SINK
ST.	STORM
S.W.S.	SAFE WASTE SINK
T.A.D.	TRANSFER AIR DUCT
T.W.	TEMPERED WATER
U/GRD.	UNDERGROUND
U.H.	UNIT HEATER
UR.	URINAL
V.	VENT
V.T.R.	VENT THRU ROOF
V.V.B.	VARIABLE VOLUME AIR TERMINAL BOX
W.C.	WATER CLOSET
W.H.	WATER HEATER
W.	WASTE

H.V.A.C. SYMBOLS

- SPIN-IN FITTING W/DAMPER
- FLEXIBLE DUCT
- RETURN AIR GRILLE
- SUPPLY AIR DIFFUSER
- HORIZONTAL FIRE DAMPER
- VERTICAL FIRE DAMPER
- VOLUME DAMPER
- RECTANGULAR TO ROUND TRANSITION
- T — THERMOSTAT
- DAMPER

PLUMBING & PIPING SYMBOLS

- DOMESTIC COLD WATER (C.W.)
- DOMESTIC HOT WATER (H.W.)
- DOMESTIC HOT WATER RETURN (H.W.R.)
- GAS OR NG — NATURAL GAS
- SAN — SANITARY SEWER-UNDER GROUND
- SAN — SANITARY SEWER-ABOVE GROUND
- ST — STORM SEWER
- VENT
- GATE VALVE
- CHECK VALVE
- BALANCING VALVE
- THERMOMETER
- STRAINER
- UNION
- FLEXIBLE CONNECTOR
- BALL VALVE
- NEW CONNECTION
- DRAIN TRAP
- VALVE
- GLOBE VALVE
- NEEDLE VALVE
- GAS COCK VALVE
- VALVE WITH HANDWHEEL
- MODULATING VALVE
- DAMPER
- STOP CHECK STRAIGHT VALVE
- CHECK VALVE
- PNEUMATIC CONTROL VALVE
- PRESSURE REGULATOR
- BACK PRESSURE REGULATOR
- DIFFERENTIAL REGULATOR
- SOLENOID VALVE (NORM. OPEN)
- SOLENOID VALVE (NORM. CLOSED)
- MOTOR ACTUATOR BALL VALVE
- PRESSURE GAUGE TO MATCH EXISTING
- TURBINE FLOW METER
- FLEX COUPLING (2 FT MIN)
- SPARK PLUG
- PUMP
- STEAM TRAP
- CURRENT / PNEUMATIC POSITIONER
- ELECTRIC MOTOR / ACTUATOR
- INSTRUMENT - NON-ACCESSIBLE

MECHANICAL SHEET INDEX

SHEET No.	DESCRIPTION
M.000	MECHANICAL LEGEND, SYMBOLS AND SHEET INDEX
M.100	LOWER LEVEL FLOOR PLAN - SANITARY & VENT PLUMBING
M.101	GROUND LEVEL FLOOR PLAN - SANITARY & VENT PLUMBING
M.102	LOWER LEVEL FLOOR PLAN - DOMESTIC WATER PLUMBING
M.103	GROUND LEVEL FLOOR PLAN - DOMESTIC WATER PLUMBING
M.200	LOWER LEVEL FLOOR PLAN - HVAC
M.201	GROUND LEVEL FLOOR PLAN - HVAC
M.300	MECHANICAL ROOF PLAN
M.301	MECHANICAL ROOF PLAN - STORM
M.400	MECHANICAL SCHEDULES
M.401	MECHANICAL DETAILS
M.500	MECHANICAL SPECIFICATIONS

NOT ALL SYMBOLS ARE USED ON THIS PROJECT

GENERAL MECHANICAL NOTES:

1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS, AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER, AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSULATION. INSTALL PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
3. NEW MECHANICAL PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
4. REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE MECHANICAL SYSTEM. VERIFY CHASES AND PENETRATIONS SHOWN ON ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR DUCTWORK AND PIPING MEET REQUIREMENTS.
5. INSTALL PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED.
6. OVERHEAD HANGERS AND SUPPORTERS FOR PIPING SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF EXCEPT WHERE CONCRETE INSERTS IN CONCRETE SLABS ARE ALLOWED BY THE SPECIFICATIONS.
7. COORDINATE LOCATION OF SUPPORTERS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT AND/OR FILTER REPLACEMENT.
8. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.
9. CONTRACTOR SHALL CEASE WORK AND IMMEDIATELY NOTIFY THE OWNER SHOULD ANY HAZARDOUS MATERIALS BE ENCOUNTERED DURING THE PERFORMANCE OF THE WORK.

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN
RESIDENTIAL
COMMERCIAL
INDUSTRIAL
G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM
ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

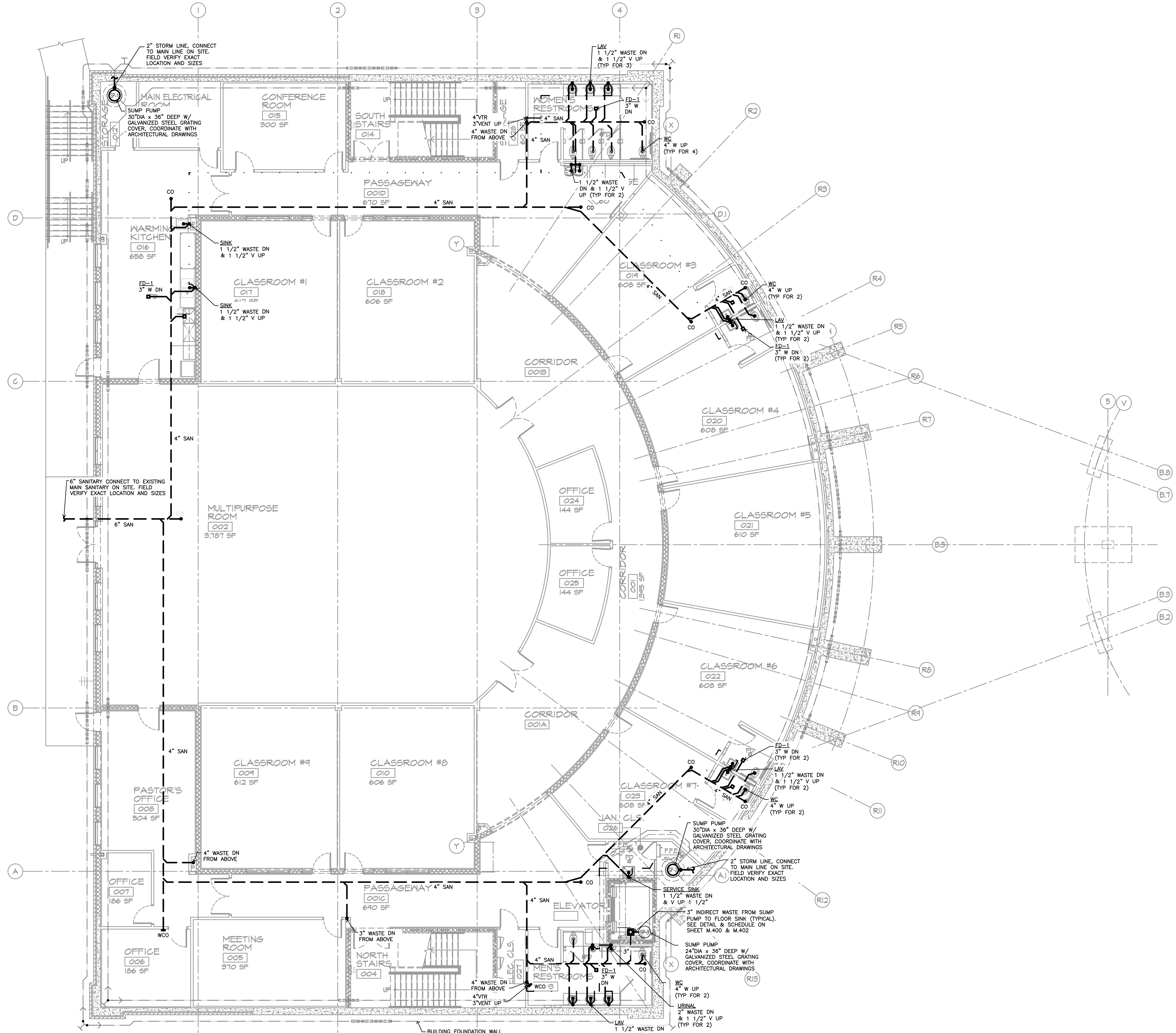
SCALE : 1/8" = 1'-0"

FILE NAME : 19059_MECH

JOB #: 19059

SHEET TITLE
MECH LEGEND, SYMBOLS AND SHEET INDEX

SHEET #
M.000



NORTH

LOWER LEVEL FLOOR PLAN - SANITARY & VENT PLUMBING

SCALE: 1/8"= 1'-0"

PLUMBING NOTES:

1. THIS DRAWING IS DIAGRAMMATIC AND SHOULD BE USED TO DETERMINE THE DESIGN INTENT. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE SET OF WORK AS INDICATED AND SHALL FIELD VERIFY ALL WORK, COORDINATE ALL DRAWINGS / NEW WORK AND SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES IN THE DOCUMENTS BEFORE PROCEEDING. FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR TAKING FULL RESPONSIBILITY AND LIABILITY FOR SAID DISCREPANCIES.
2. COORDINATE PROPER SHUTDOWN OF EXISTING CW SYSTEM WITH THE END USER PRIOR TO CONNECTION OF NEW SYSTEM.
3. ALL LABOR, VALVES, TRAPS, TAILPIECES, PRESSURE-REDUCING VALVES, AND FITTINGS REQUIRED FOR FINAL CONNECTION OF EQUIPMENT TO COMPLY WITH ALL CODES, INCLUDING INTERWIRING CONNECTIONS TO BE FURNISHED BY MECHANICAL CONTRACTOR UNLESS OTHERWISE INDICATED.
4. PLUMBING CONTRACTOR TO DO ALL ROUGH-INS AND MAKE ALL FINAL CONNECTIONS TO EQUIPMENT.
5. PLUMBING CONTRACTOR TO FURNISH ALL TRIM, ACCESSORIES, VALVES, PRESSURE REGULATORS, P-TRAPS, GREASE TRAPS, BACKFLOW PREVENTION SYSTEM DEVICES ETC.
6. PLUMBING CONTRACTOR TO EXTEND ALL INDIRECT WASTE LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN / FLOOR SINK AS REQUIRED.
7. COORDINATE FIXTURE, DRAIN, FLOOR SINK & GAS LAYOUT W/ FOOD SERVICE CONTRACTOR.

ISSUED FOR	DATE
PERMITS	08.23.2021

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PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DG	DG

SCALE : 1/8" = 1'-0"

FILE NAME : 19059_MECH

JOB #: 19059

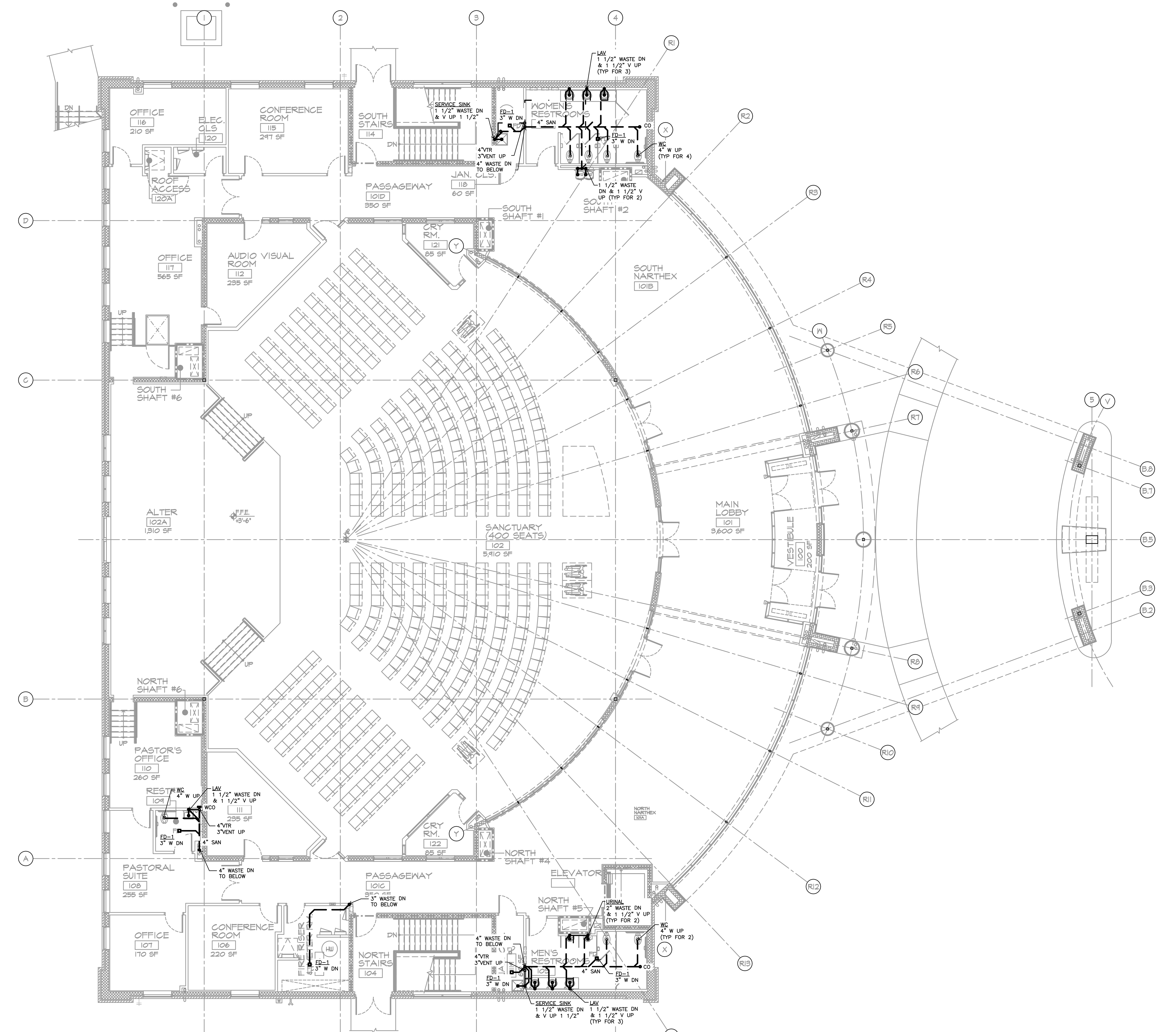
SHEET TITLE

LOWER LEVEL FLOOR PLAN - SAN. & VENT PLUMBING

SHEET #

M.100

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT



GROUND LEVEL FLOOR PLAN - SANITARY & VENT PLUMBING

SCALE: 1/8"= 1'-0"

NORTH

PLUMBING NOTES:

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PROPOSED BUILDING FOR:
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3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : 1/8" = 1'-0"

FILE NAME : 19059_MECH

JOB #: 19059

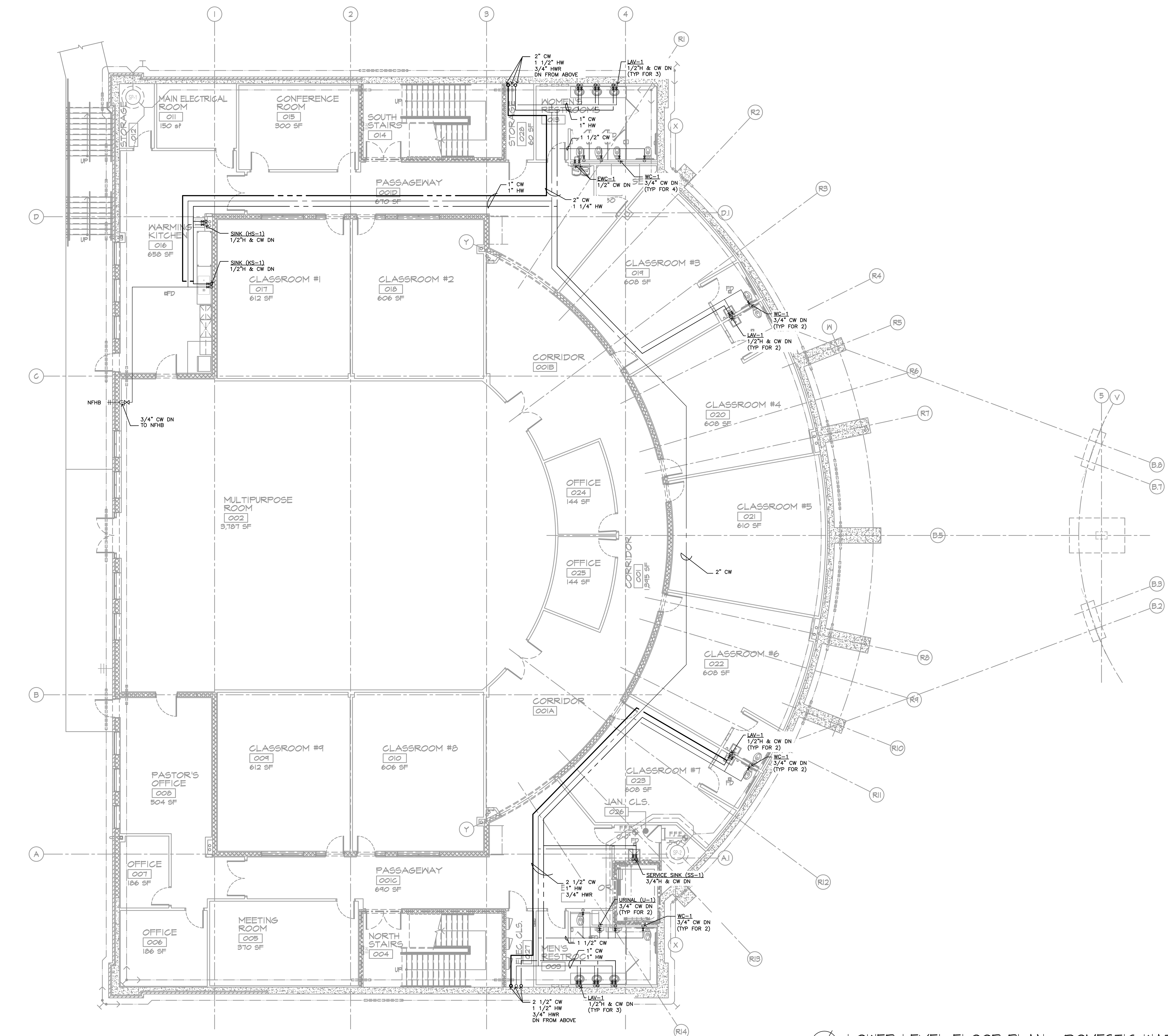
SHEET TITLE

GROUND LEVEL FLOOR PLAN - SAN. & VENT PLUMBING

SHEET #

M.101

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT



PLUMBING NOTES:

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NORTH

LOWER LEVEL FLOOR PLAN - DOMESTIC WATER PLUMBING

SCALE: 1/8" = 1'-0"

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN

RESIDENTIAL
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INDUSTRIAL

G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

GAV ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : 1/8" = 1'-0"

FILE NAME : 19059_MECH

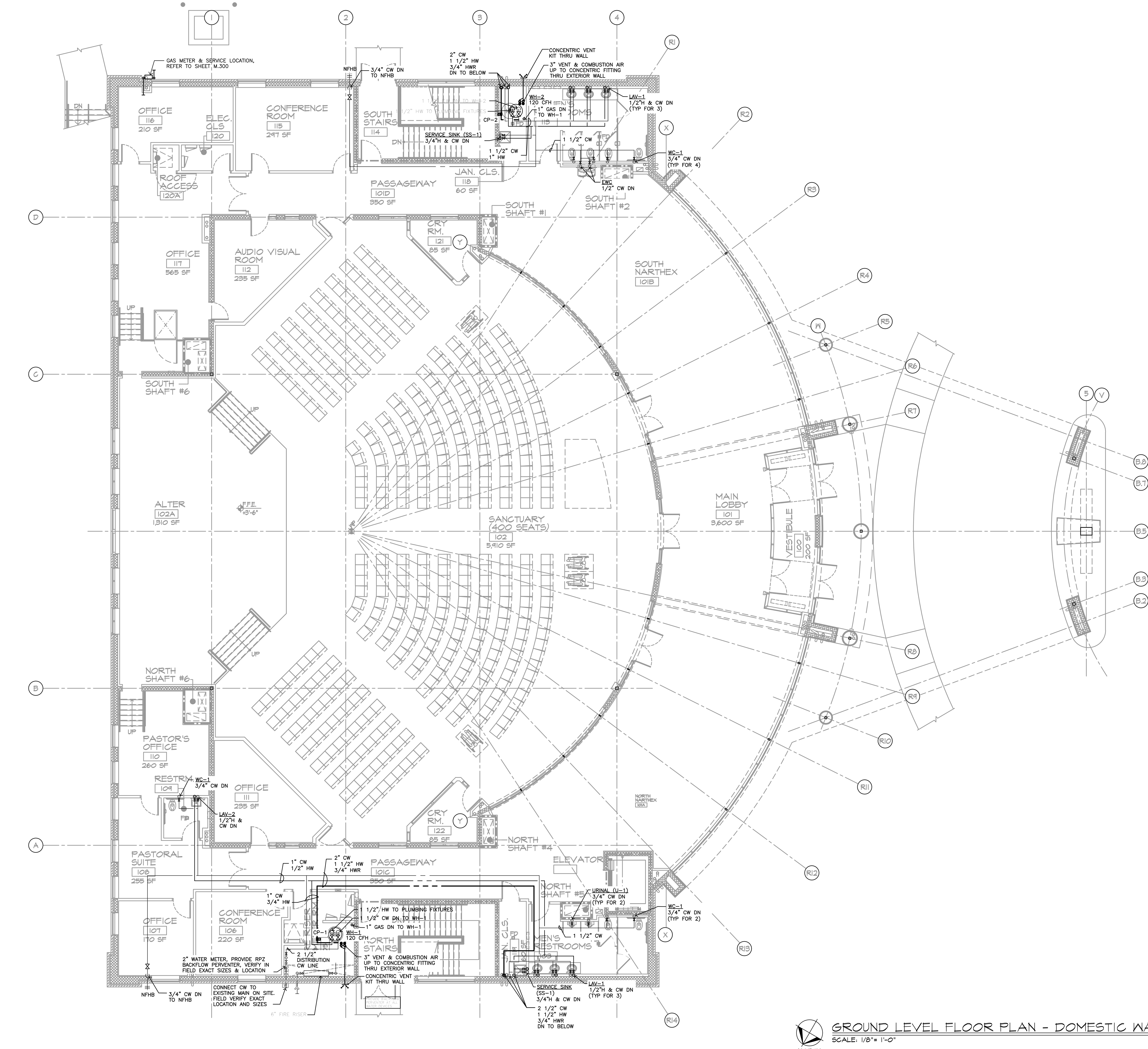
JOB #: 19059

SHEET TITLE

LOWER LEVEL FLOOR PLAN - DOMESTIC WATER PLUMBING

SHEET #

M.102



GROUND LEVEL FLOOR PLAN - DOMESTIC WATER PLUMBING
SCALE: 1/8" = 1'-0"

NORTH

PLUMBING NOTES:

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ISSUED FOR	DATE
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ARCHITECTURAL DESIGN

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ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : 1/8" = 1'-0"

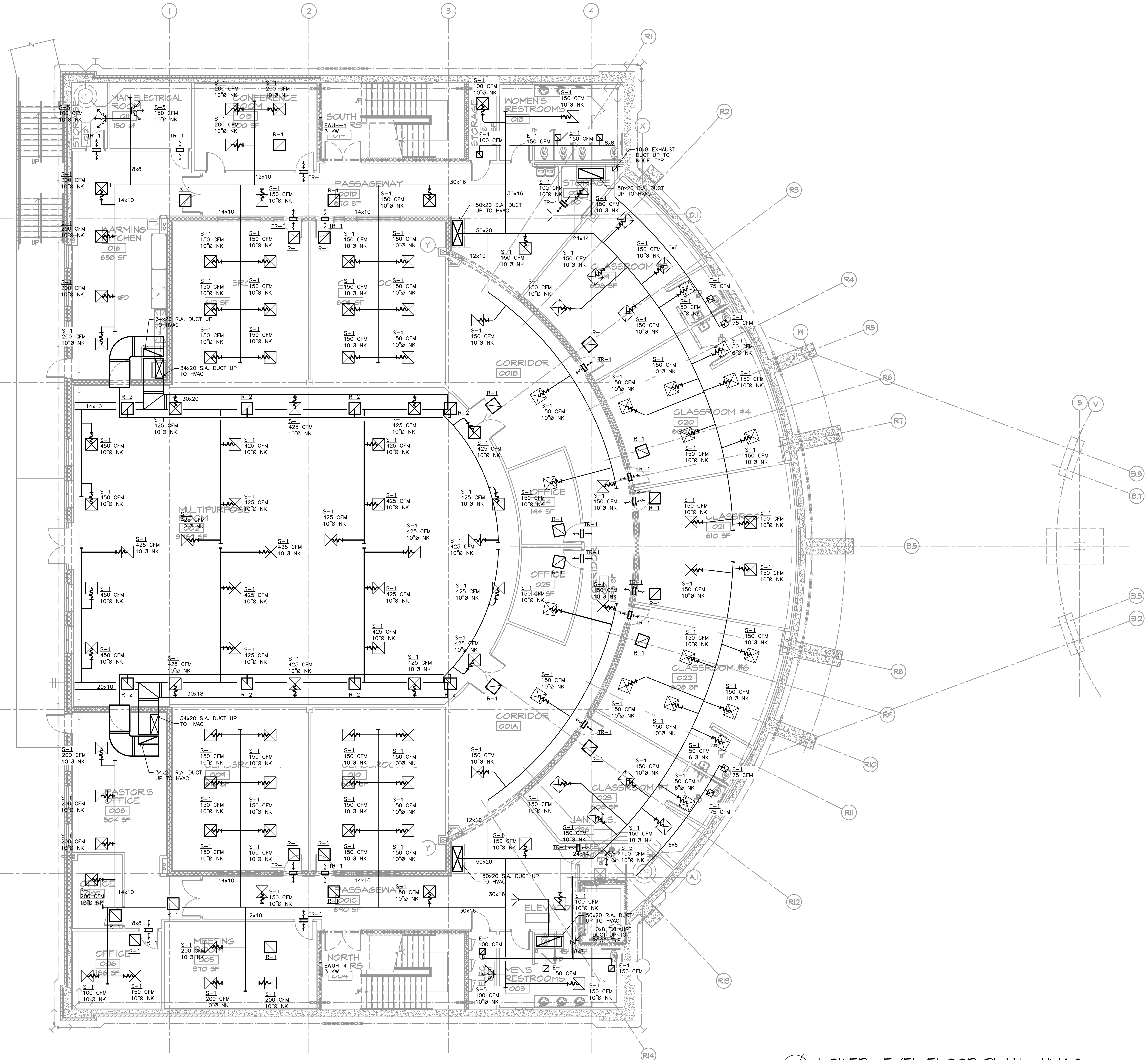
FILE NAME : 19059_MECH

JOB #: 19059

SHEET TITLE
GROUND LEVEL FLOOR PLAN - DOMESTIC WATER PLUMBING

SHEET #
M.103

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT



LOWER LEVEL FLOOR PLAN - HVAC
SCALE: 1/8"= 1'-0"

NORTH

HVAC NOTES:

1. ALL NEW MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
2. COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS, AND GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL, AND DUCT INSTALLATION REQUIREMENTS.
3. ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS, AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.
4. PROVIDE A PREFABRICATED RECTANGULAR/ROUND BRANCH DUCT TAKEOFF FITTING WITH MANUAL BALANCING DAMPER AND LOCKING QUADRANT FOR BRANCH DUCT CONNECTIONS AND TAKE–OFFS TO INDIVIDUAL DIFFUSERS, REGISTERS AND GRILLES.
5. BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS OTHERWISE NOTED.
6. REFER TO SPECIFICATIONS FOR DUCTWORK AND PIPING INSULATION REQUIREMENTS. DUCT SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE AIRFLOW DIMENSIONS.
7. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'–0" IN LENGTH AND SHALL BE INSTALLED AND SUPPORTED TO AVOID SHARP BENDS AND SAGGING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN

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COMMERCIAL
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24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : 1/8" = 1'-0"

FILE NAME : 19059_MECH

JOB #: 19059

SHEET TITLE
LOWER LEVEL FLOOR PLAN - HVAC

SHEET #
M.200

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

HVAC NOTES:

1. ALL NEW MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
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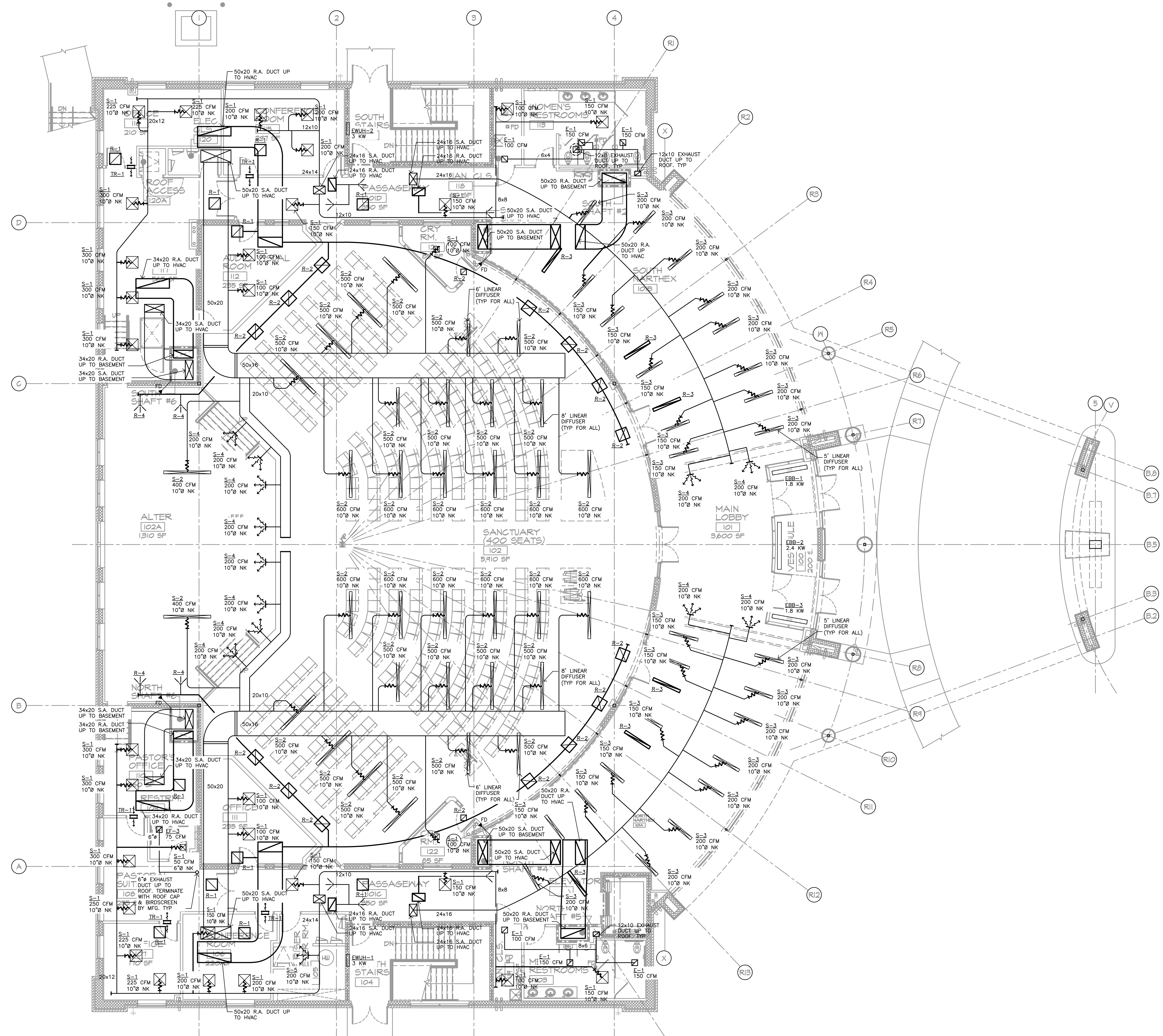

GROUND LEVEL FLOOR PLAN - HVAC
SCALE: 1/8"= 1'-0"

ARCHITECTURAL DESIGN
RESIDENTIAL
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ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DS	DS

SCALE : 1/8" = 1'-0"

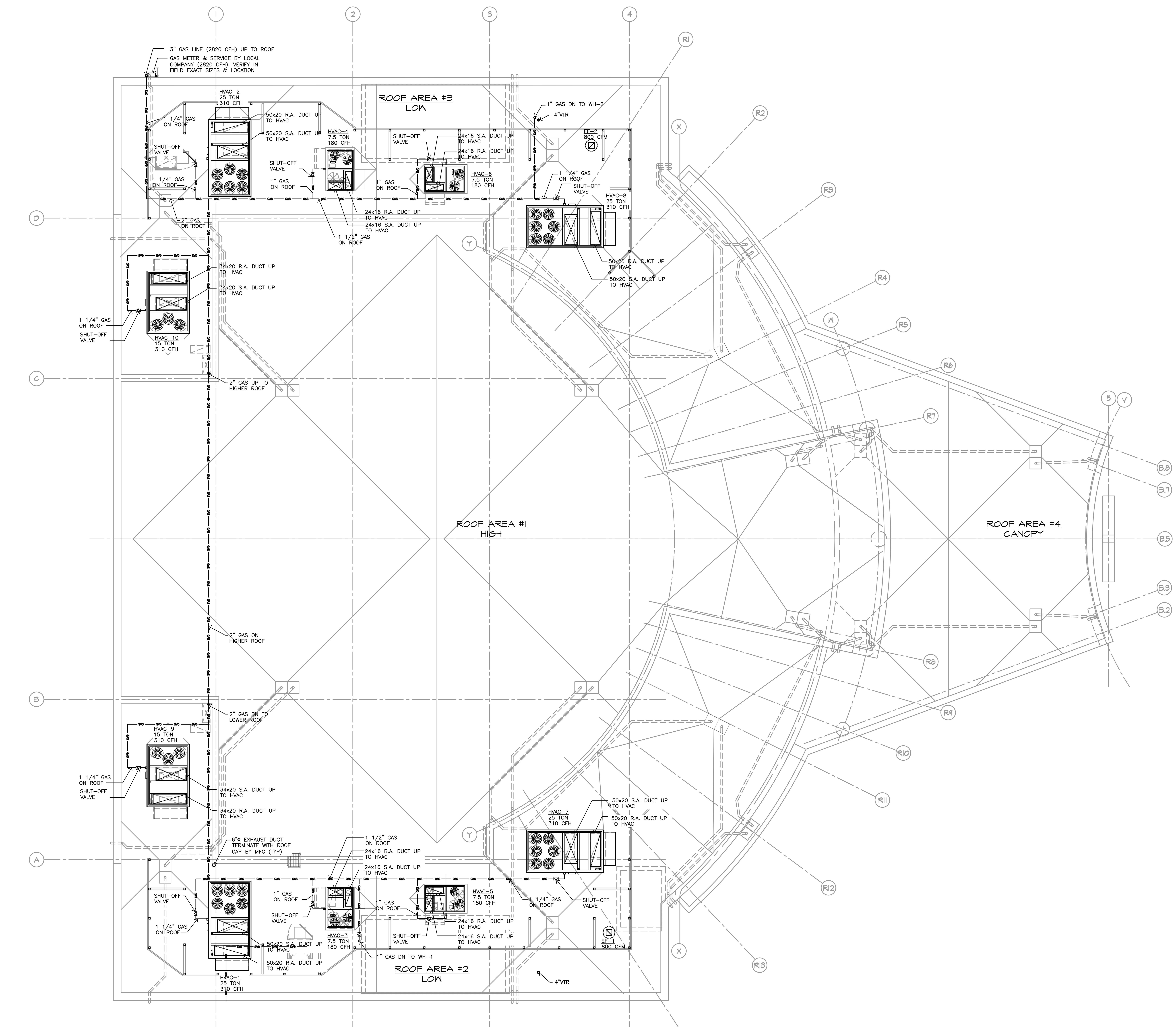
FILE NAME : 19059_MECH

JOB #: 19059

SHEET TITLE
GROUND LEVEL FLOOR PLAN - HVAC

SHEET #
M.201

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT



NORTH

MECHANICAL ROOF PLAN
SCALE: 1/8"= 1'-0"

MECHANICAL ROOF NOTES:

1. ALL NEW MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
2. REFER TO SPECIFICATIONS FOR DUCTWORK AND PIPING INSULATION REQUIREMENTS.

ISSUED FOR	DATE
PERMITS	08.23.2021

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PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA		DS

SCALE : 1/8" = 1'-0"

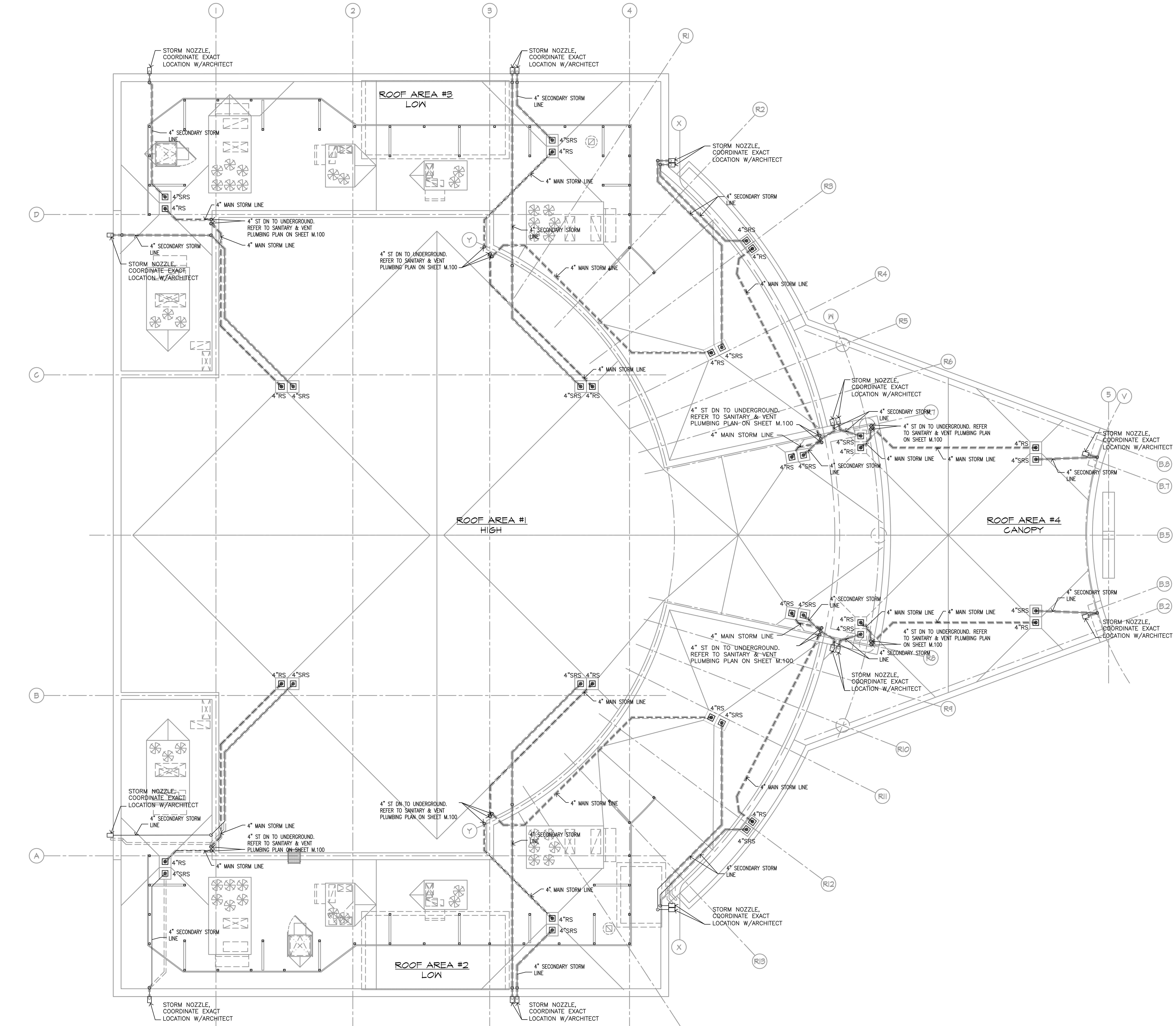
FILE NAME : 19059_MECH

JOB #: 19059

SHEET TITLE
MECHANICAL ROOF PLAN

SHEET #
M.300

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT



MECHANICAL ROOF PLAN - STORM
SCALE: 1/8"= 1'-0"

NORTH

STORM DRAINAGE:

ROOF AREA #1 - HIGH:

ROOF AREA	= 9,100 SF
VERTICAL WALL AREA = 455 L.F. X 1.67 HT.	= 760 SF
	= 9,860
0.0291 GPM/SF x 9,860 SF	= 287 GPM

ROOF AREA #2 & #3 - LOW (EACH):

ROOF AREA	= 3,800 SF
VERTICAL WALL AREA = 382 L.F. X 1.33 HT.	= 508 SF
	= 4,308 SF
0.0291 GPM/SF x 4,308 SF	= 126 GPM

ROOF AREA #4 - CANOPY:

ROOF AREA	= 2,550 SF
VERTICAL WALL AREA = 350 L.F. X 0.83 HT.	= 290 SF
	= 2,840 SF
0.0291 GPM/SF x 2,840 SF	= 83 GPM

MECHANICAL ROOF NOTES:

1. ALL NEW MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
2. REFER TO SPECIFICATIONS FOR DUCTWORK AND PIPING INSULATION REQUIREMENTS.

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN
RESIDENTIAL
COMMERCIAL
INDUSTRIAL
G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM
ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA		DS

SCALE : 1/8" = 1'-0"

FILE NAME : 19059_MECH

JOB #: 19059

SHEET TITLE
MECHANICAL ROOF PLAN - STORM

SHEET #
M.301

HVAC SCHEDULE

TAG	MANUFACTURER & MODEL NO.	AREA SERVED	NOMINAL CAPACITY	ELECTRICAL			HEATING DATA		COOLING DATA @ 90 °F OAT			SUPPLY FAN DATA			MIN OA	TOTAL OPERATING WEIGHT (LB)	NOTES/ACCESSORIES
			TONS MIN	V / PH / HZ	MCA (AMPS)	MAX. FUSE SIZE (AMPS)	INPUT CFH	OUTPUT CFH	TOTAL MBH MIN	SENSIBLE MBH	EAT db/wb °F	CFM	ESP "WC	BHP			
HVAC-1 HVAC-2 HVAC-7 HVAC-8	CARRIER/ 48HCRD28B3A6-6W2J0	SEE DRAWING	25	460-3-60	61.2	70	310	251	311.06	232.41	80.2/66.9	10000	1.1	7.11	3000	2719	A,B,C,D,E,F,G,H,J,K
HVAC-3 HVAC-4 HVAC-5 HVAC-6	CARRIER/ 48HCRD08B2A6-6W2C0	SEE DRAWING	7.5	460-3-60	21	25	180	148	95.03	72.42	80.2/66.9	3000	1.11	1.67	900	1329	A,B,C,D,E,F,G,H,J,K
HVAC-9 HVAC-10	CARRIER/ 48HCRD17B3A6-6W2J0	SEE DRAWING	15	460-3-60	40.1	50	310	251	186.54	138.89	80.2/66.9	6000	1.06	3.32	1800	2654	A,B,C,D,E,F,G,H,J,K

NOTES AND ACCESSORIES DESIGNATION

A	18" HIGH CURB	L		APPROVED MANUFACTURER
B	2" THROWAWAY FILTERS-MERV 8	M		
C	100% ECONOMIZER WITH ENTHALPY CONTROL	N		
D	7-DAY PROGRAMMABLE STAT	O		
E	FACTORY MOUNTED & WIRED NON-FUSED DISCONNECT SWITCH	P		TRANE AMERICAN STANDARD LENNOX AAON OR EQUAL
F	SINGLE PORT POWER	Q		
G	R410 A REFRIGERANT	R		
H	STAINLESS STEEL DRIP PAN	S		
J	CONVENIENCE OUTLET	T		
K	SMOKE DETECTOR			

NATURAL GAS LOAD SCHEDULE

EQUIPMENT	TOTAL INPUT CFH
HVAC–1	310
HVAC–2	310
HVAC–7	310
HVAC–8	310
HVAC–3	180
HVAC–4	180
HVAC–5	180
HVAC–6	180
HVAC–9	310
HVAC–10	310
WATER HEATER – 1	120
WATER HEATER – 2	120
TOTAL	2820 CFH

GRILLE, REGISTER & DIFFUSER SCHEDULE

TAG	BASIS OF DESIGN	MODEL	SERVICE	MOUNTING	CAPACITY (CFM)	OVERALL SIZE	NECK SIZE	NOTES /ACCESSORIES
S-1	TITUS	OMNI	SUPPLY	LAY IN	SEE PLAN	24"x24"	SEE PLAN	A, B
S-2	TITUS	CT	SUPPLY	LINEAR	SEE PLAN	L + 1 1/4" x W + 1 1/4"	SEE PLAN	A, B
S-3	TITUS	CT	SUPPLY	LINEAR	SEE PLAN	L + 1 1/4" x W + 1 1/4"	SEE PLAN	A, B
S-4	TITUS	272FL	SUPPLY	WALL/ SOFFIT	SEE PLAN	L + 1 1/4" x W + 1 1/4"	SEE PLAN	A
S-5	TITUS	S300FS	SUPPLY	DUCT	SEE PLAN	L + 1 1/4" x W + 1 1/4"	SEE PLAN	A
R-1	TITUS	50F	RETURN	LAY IN	SEE PLAN	24"x24"	SEE PLAN	A
R-2	TITUS	50F	RETURN	SURFACE	SEE PLAN	24"x24"	SEE PLAN	A
R-3	TITUS	CT	RETURN	LINEAR	SEE PLAN	L + 1 1/4" x W + 1 1/4"	SEE PLAN	A
R-4	TITUS	50F	RETURN	WALL/ SOFFIT	SEE PLAN	24"x24"	SEE PLAN	A
TR-1	TITUS	50F	RETURN	WALL/ SOFFIT	SEE PLAN	L + 1 1/4" x W + 1 1/4"	SEE PLAN	A
E-1	TITUS	50F	EXHAUST	SURFACE	SEE PLAN	12"x12"	SEE PLAN	A

A	**WHITE FINISH**
B	**SQUARE TO ROUND ADAPTOR**

WATER HEATER PUMP SCHEDULE

TAG	MANUFACTURER& MODEL No.	LOCATION	SERVICE	TYPE	SIZE	CAPACITIES		MOTOR DATA			NOTES/ACCESSORIES
						GPM	HEAD	HP	VOLTS	RPM	
CP-1 CP-2	B&G 60 SERIES	SEE DRAWINGS	WH-1	IN LINE	1X1X5-1/4	8	15	1/4	120/1	1750	A B C

NOTES AND ACCESSORIES DESIGNATION

A	PROVIDE ALL CONTROL
B	DISCONNECT SWITCH
C	SET AQUATSAT @ 115°F

EXHAUST FAN SCHEDULE

TAG	BASIS OF DESIGN	MODEL	SERVICE	LOCATION	CFM	ESP "WC	DRIVE	ELECTRICAL VOLT	WATTS/HP	NOTES/ ACCESSORIES
EF-1	LOREN COOK	120C11D	SEE DRAWING	ROOF	800	0.5"	DIRECT	120/1	1/6 HP	A, B, C, D, E, F
EF-2	LOREN COOK	120C11D	SEE DRAWING	ROOF	800	0.5"	DIRECT	120/1	1/6 HP	A, B, D, E, F, G

NOTES AND ACCESSORIES DESIGNATION

A PROVIDE FACTORY MOUNTED DISCONNECT SWITCH WITH THERMAL OVERLOAD PROTECTION
B CONTRACTOR TO FURNISH COMBINATION STARTER / DISCONECT SWITCH
C INTERLOCK FAN OPERATION WITH HVAC-3
D GRAVITY BACKDRAFT DAMPER
E ROOF CAP W/ BIRDSCREEN AS SUPPLIED BY MFG
F PROVIDE 18" ROOF CURB
G INTERLOCK FAN OPERATION WITH HVAC-4

ELECTRIC WALL UNIT HEATER SCHEDULE

TAG	BASIS OF DESIGN	MODEL	LOCATION	TYPE	CAPACITY (WATTS)	ELECTRICAL VOLT/PH/HZ	NOTES /ACCESSORIES
EWUH–1 EWUH–2 EWUH–3 EWUH–4	Q–MARK	LFK 404F	STAIRS	WALL	3000	208 / 1 /60	WALL MOUNTED ACCESSORIES, TEHRMAL OVERHEAT PROTECTOR, BUILTIN POWER DISCONNECT SWITCH, UNIT MOUNTED THERMOSTAT.

ELECTRIC BASE BOARD HEATER SCHEDULE

TAG	BASIS OF DESIGN	MODEL	LOCATION	TYPE	LENGTH	CAPACITY (WATTS)	ELECTRICAL VOLT/PH/HZ	NOTES /ACCESSORIES
EBB–1	MARKEL	RDBT	VEST.	FLOOR MOUNTED	6'	1800	208 / 1 /60	THERMOSTAT MOUNTED ON ONE SIDE AND A DISCONNECT ON THE OTHER SIDE FLOOR MOUNTED ACCESSORIES.
EBB–2	MARKEL	RDBT	VEST.	FLOOR MOUNTED	8'	2400	208 / 1 /60	
EBB–3	MARKEL	RDBT	VEST.	FLOOR MOUNTED	6'	1800	208 / 1 /60	

DOMESTIC WATER HEATER SCHEDULE

TAG	MANUFACTURER & MODEL No.	LOCATION	CAPACITIES			FLUE Ø	GAS INPUT CFH	NOTES/ACCESSORIES
			STORAGE	RECOVERY	TD °F			
WH–1 WH–2	A.O. SMITH BTH–120	SEE DRAWINGS	60	173	80	4"	120	A B C D E F

NOTES AND ACCESSORIES DESIGNATION

A	P & T RELIEF TO FD	D	EXPANSION TANK
B	FLOOR MOUNTED	E	NATURAL GAS
C	POWER VENTED	F	120V/1Ø, DISCONNECT SWITCH

SUMP PUMP SCHEDULE

MECHANICAL DATA											ELECTRICAL DATA											
					HEAD (FEET)								STARTER					REMOTE CONTROL				
MARK	SERVICE/LOCATION	GPM	TYPE	NO. OF PUMPS	DESIGN	50%	SHUT–OFF	CONN. DISCH. SIZE (IN.)	MOTOR RPM	SEE NOTE	H.P. F.L.A.	VOLT/ PHASE	TYPE	CONTROL	PILOT	AUX.	BY	TYPE	BY	CONN. BY	DISC. SW. BY	SEE NOTE
SP–1	BASEMENT	50	SUBMERSIBLE	1	17	22	26	1–1/2	1750	–	1/2	120/1	–	–	–	–	M	FS	M	M	E	1
SP–2	BASEMENT	50	SUBMERSIBLE	1	17	22	26	1–1/2	1750	–	1/2	120/1	–	–	–	–	M	FS	M	M	E	1
SP–3	ELEVATOR	50	SUBMERSIBLE	1	17	22	26	1–1/2	1750	–	1/2	120/1	–	–	–	–	M	FS	M	M	E	1

1. CORD AND PLUG CONNECTION

STATE OF MICHIGAN
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SSA	DG	DG

SCALE : 1/8" = 1'-0"

FILE NAME : 19059_MECH

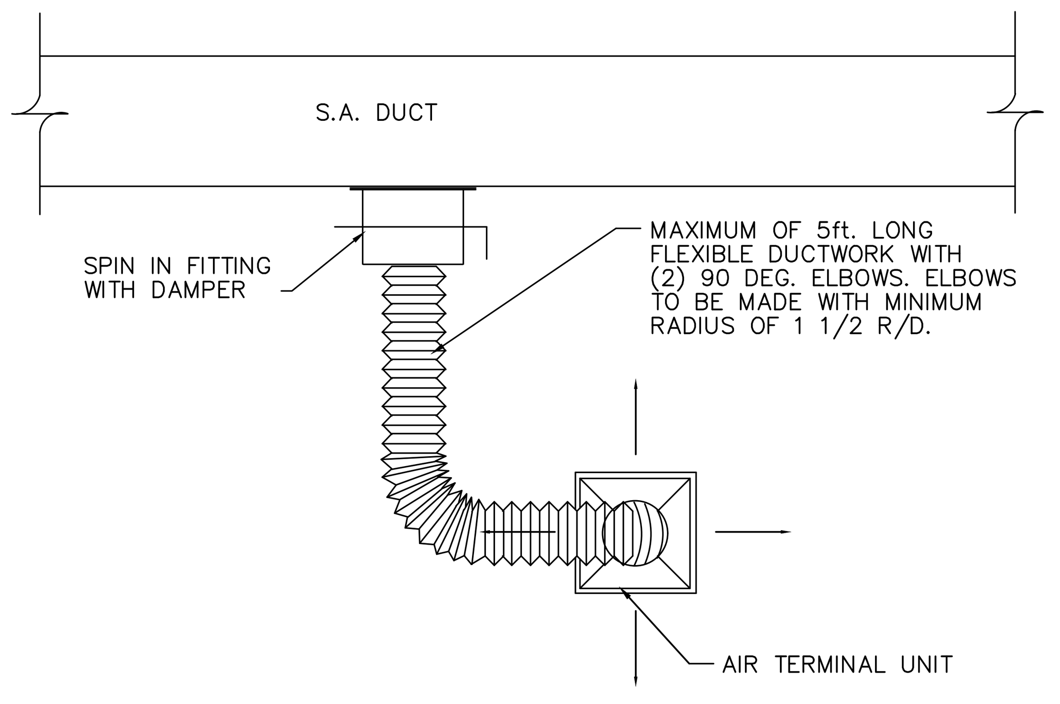
JOB #: 19059

SHEET TITLE

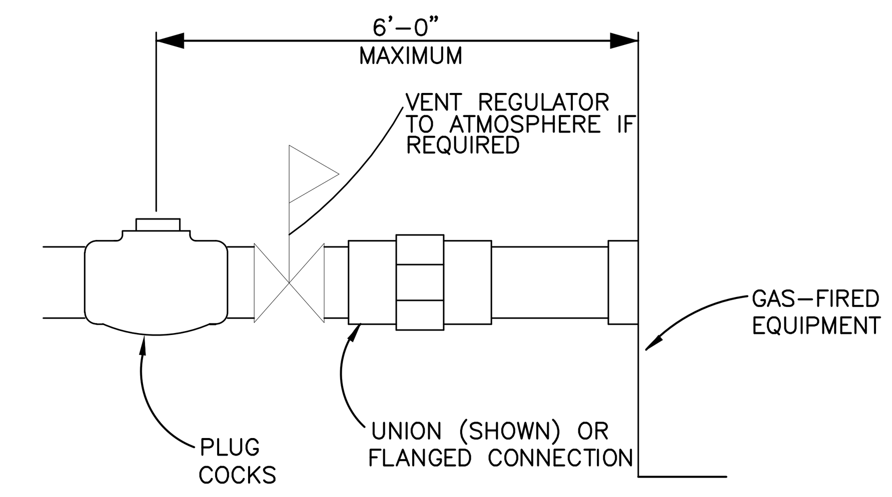
MECHANICAL SCHEDULES

SHEET #

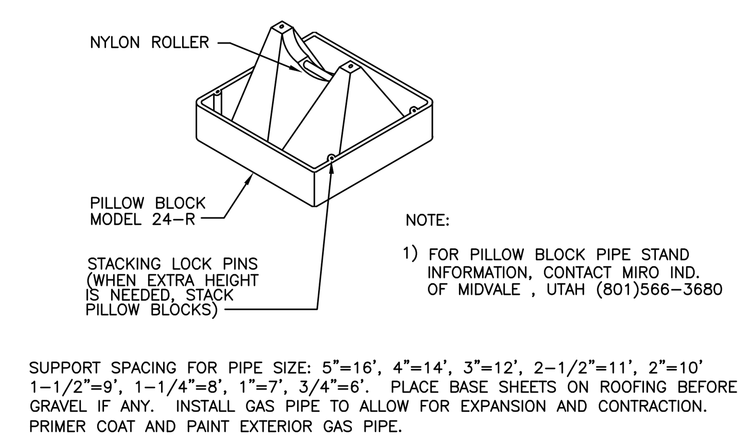
M.400



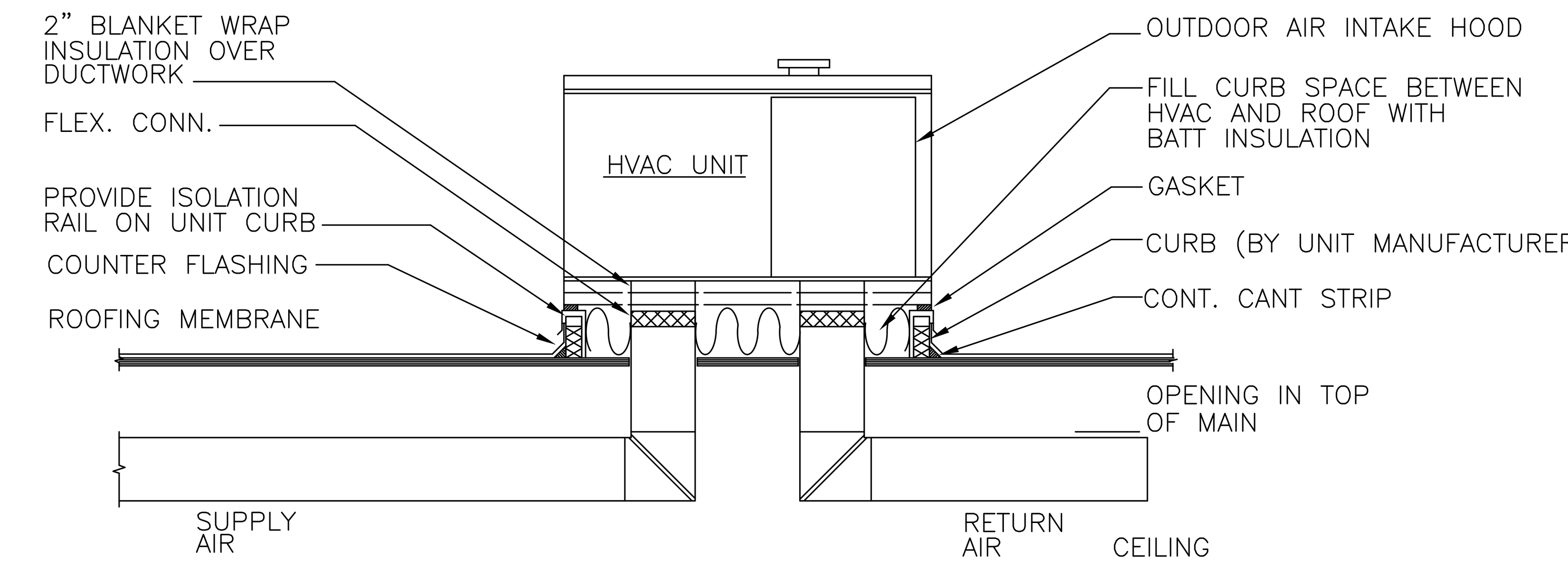
FLEXIBLE DUCT CONNECTION DETAIL
NO SCALE



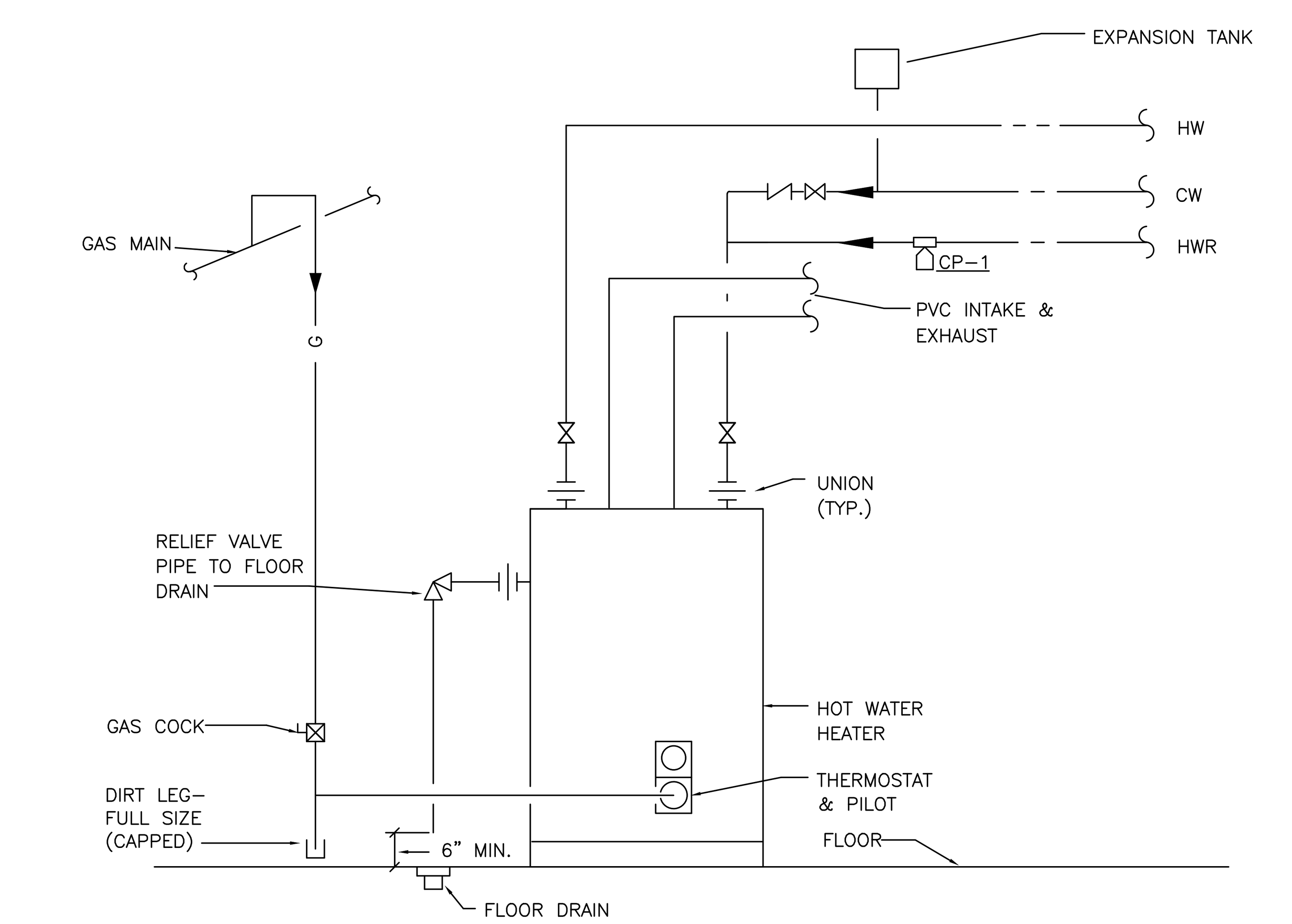
TYPICAL GAS PIPING CONNECTION
NO SCALE



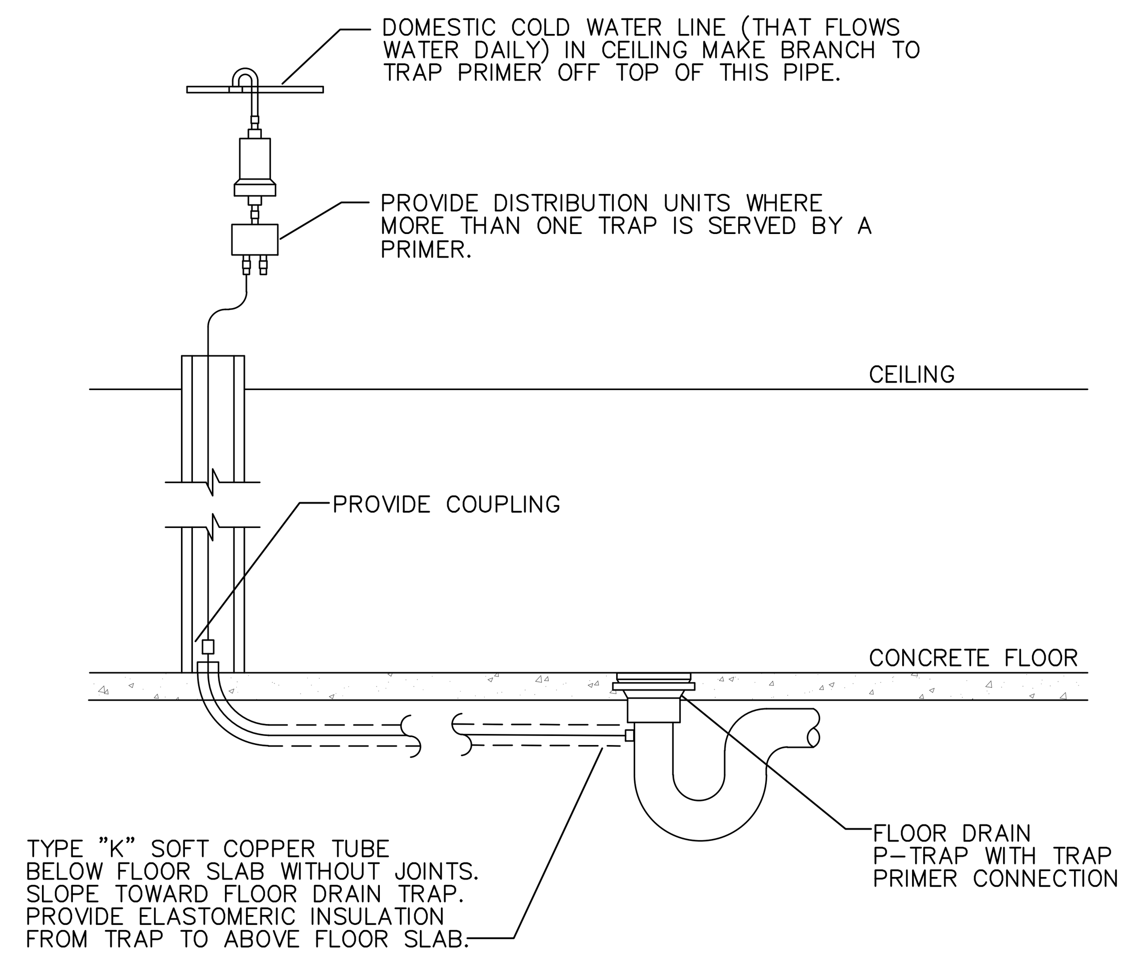
SUPPORT OF PIPE ON ROOF
NO SCALE



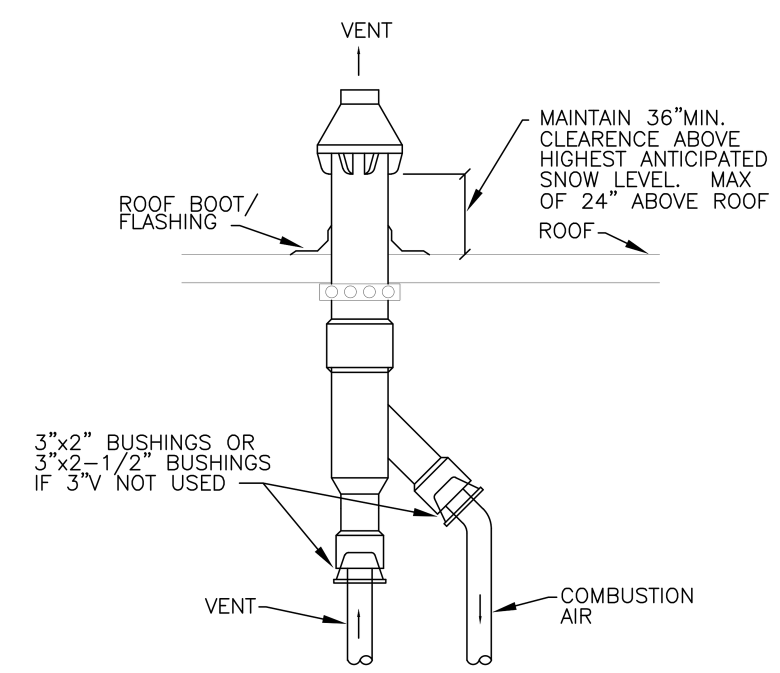
SECTION THROUGH HVAC UNIT
NO SCALE



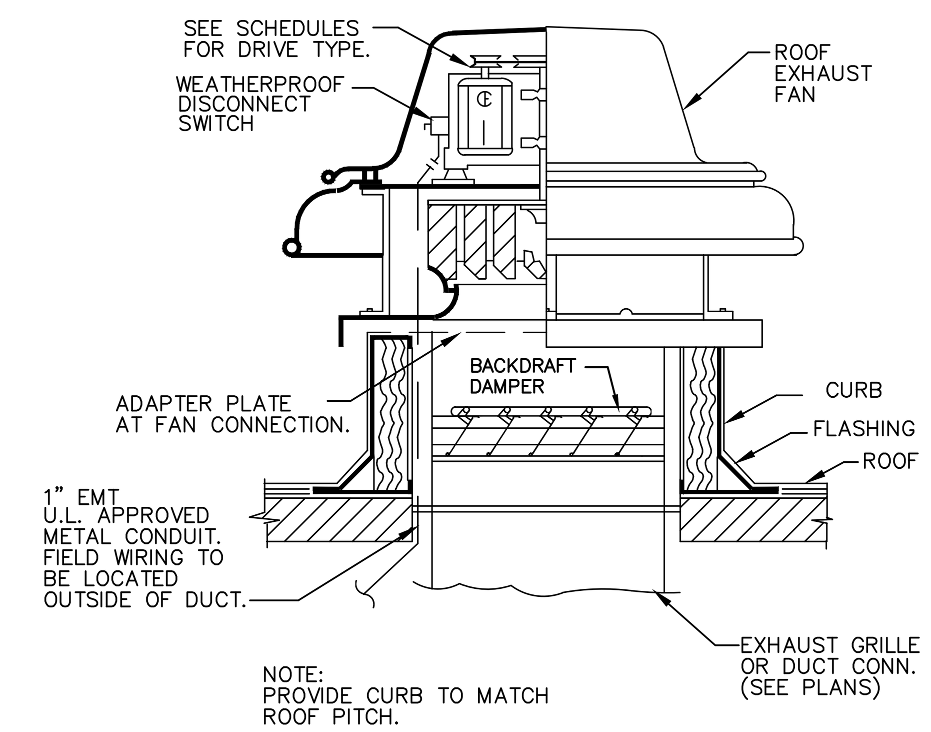
DOMESTIC WATER HEATER PIPING SCHEMATIC (WH)
NO SCALE



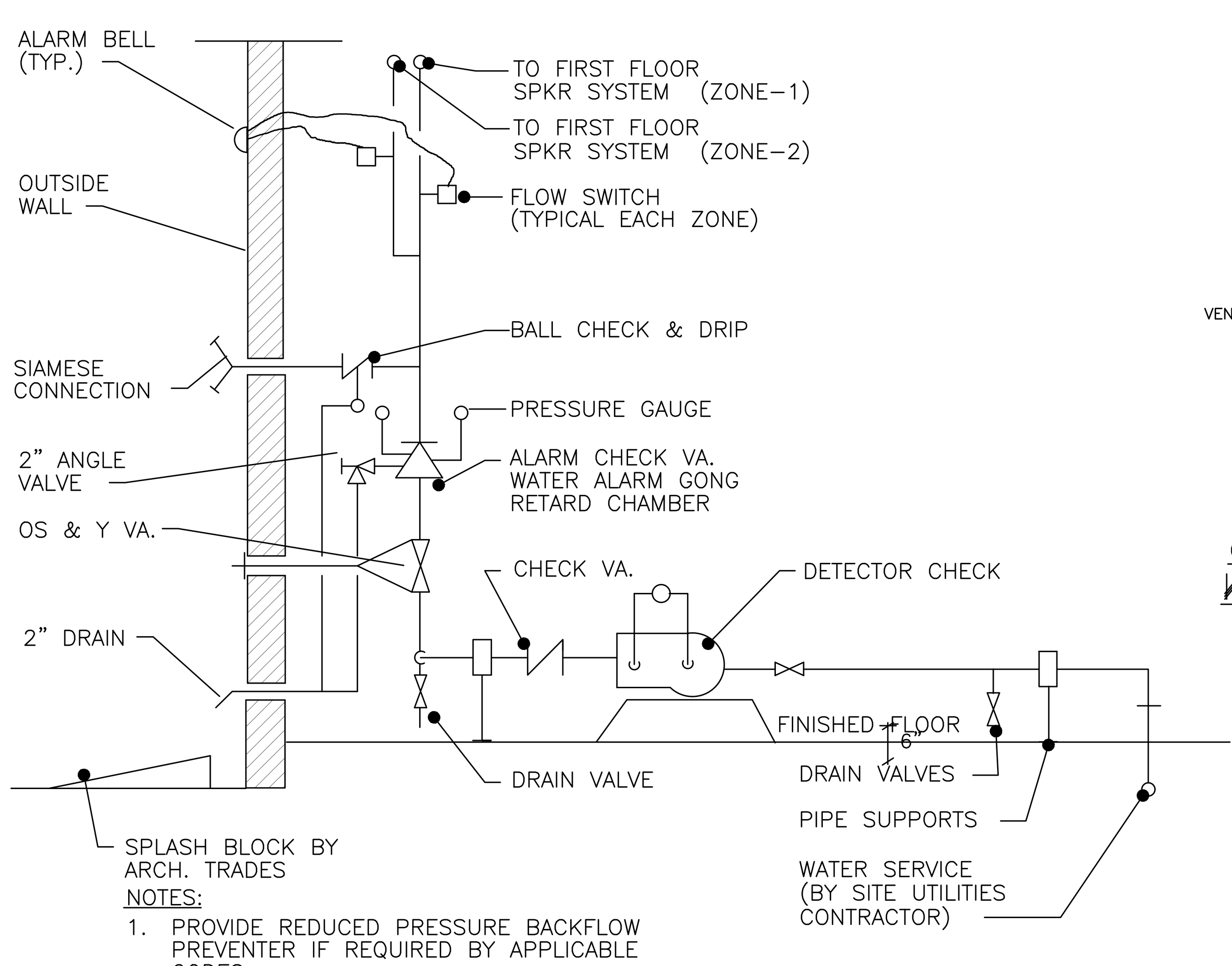
TRAP PRIMER- DETAIL
NO SCALE



CONCENTRIC VENT KIT
ROOF INSTALLATION DETAIL
NO SCALE

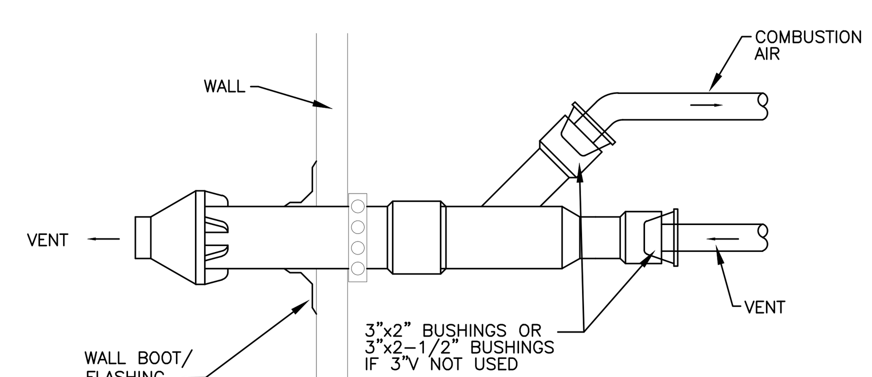


ROOF EXAUSTER DETAIL (EF)
NO SCALE

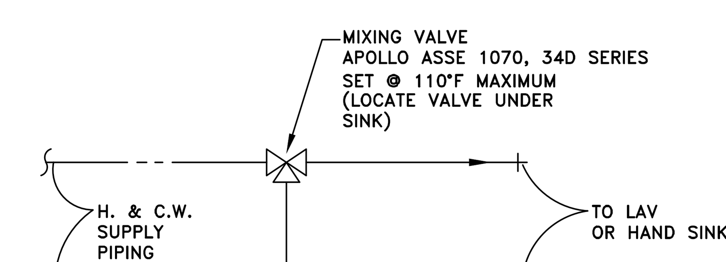


NOTES:
1. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER IF REQUIRED BY APPLICABLE CODES.

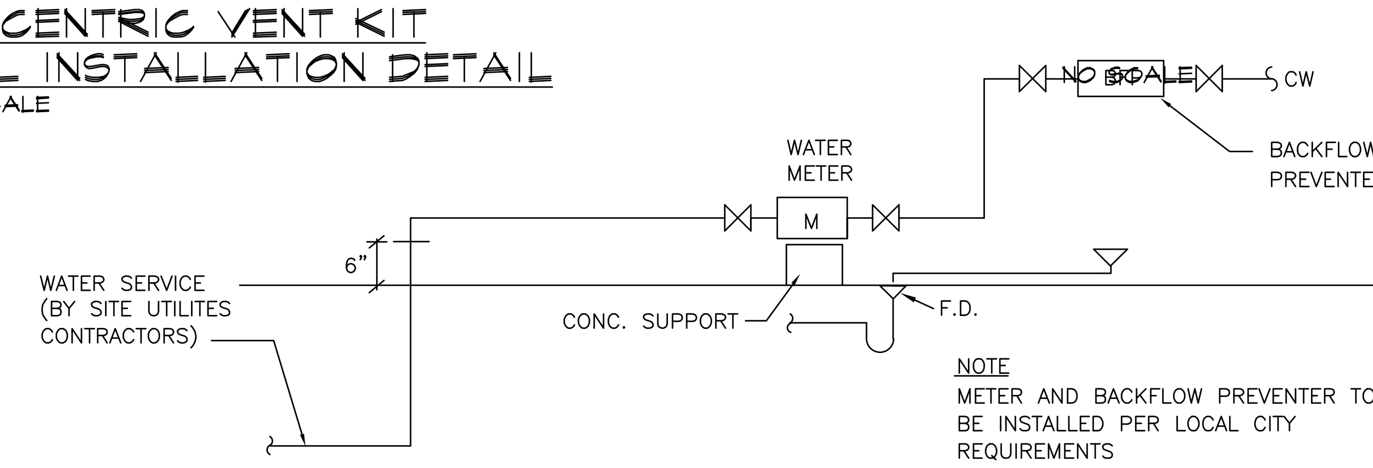
AUTOMATIC SPRINKLER RISER DIAGRAM
NO SCALE



CONCENTRIC VENT KIT
WALL INSTALLATION DETAIL
NO SCALE

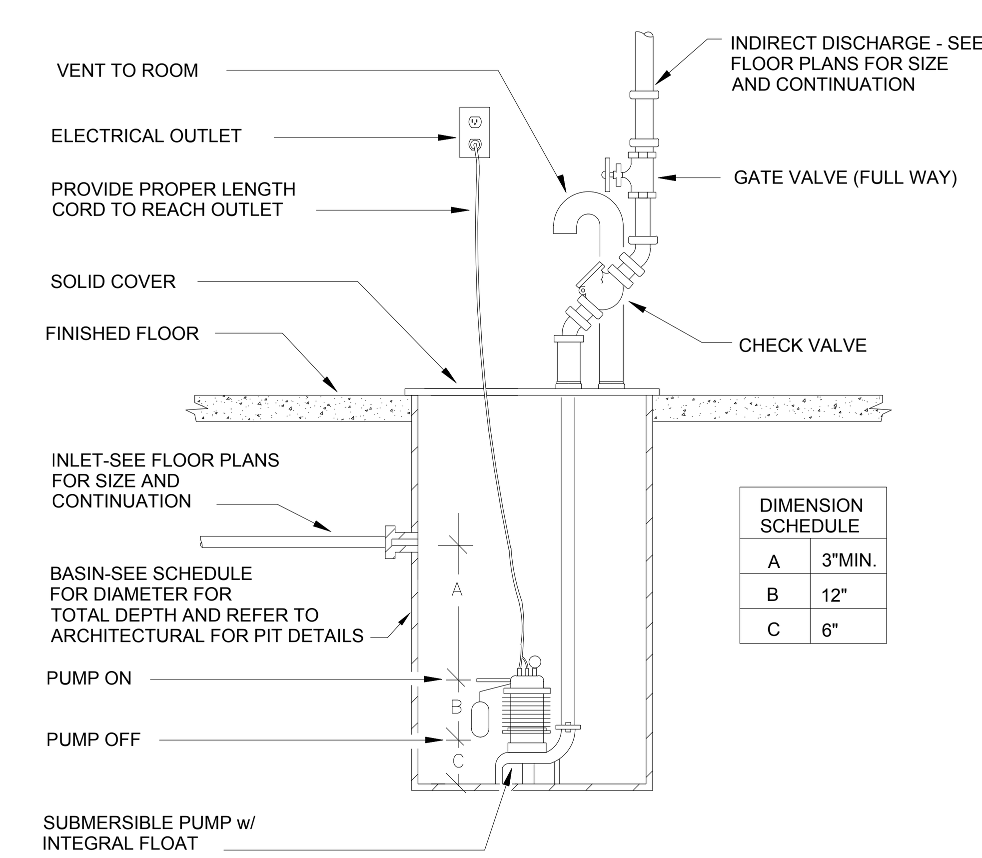


MIXING VALVE PIPING DETAIL ALL
LAV'S AND HAND SINKS



NOTE
METER AND BACKFLOW PREVENTER TO BE INSTALLED PER LOCAL CITY REQUIREMENTS

WATER METER INSTALLATION DIAGRAM
NO SCALE



DIMENSION SCHEDULE	
A	3"MIN.
B	12"
C	6"

TYPICAL SUMP DETAIL
NO SCALE

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SHEET TITLE
MECHANICAL DETAILS
SHEET #
M.401

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

SPECIFICATIONS

GENERAL

A. FURNISH ALL LABOR, MATERIAL, TOOLS INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE HEATING, VENTILATING AND AIR CONDITIONING SYSTEM. INCLUDE ANY LABOR AND MATERIAL NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO PROVIDE A COMPLETE AND OPERATING SYSTEM. ALL WORK SHALL BE INSTALLED IN A PROFESSIONAL MANNER AND SHALL MEET ALL THE REQUIREMENTS OF THE STATE BUILDING CODE, CITY BUILDING CODE, SAFETY AND HEALTH CODES, NFPA, STATE CODES AND ALL OTHER APPLICABLE CODES AND REGULATIONS.

B. THE WORK INCLUDED IN THE CONTRACT SHALL CONSIST OF FURNISHING, INSTALLING, LASTING AND GUARANTEEING OF THE FOLLOWING WORK:

1. LOW PRESSURE DUCT WORK AND INSULATION.
2. HOT AND COLD WATER PIPING AND INSULATION.
3. SANITARY PIPING.
4. WATER HEATERS.
5. AIR DEVICES / ACCESSORIES.
6. POWER VENTILATORS.
7. HVAC UNITS.
8. TESTS, ADJUSTMENTS AND BALANCING OF ALL SYSTEMS.

HVAC UNIT

A. HVAC UNITS SHALL BE FACTORY ASSEMBLED AND TESTED. CONSISTING OF: BLOWER, EVAPORATOR COIL, ECONOMIZER, REFRIGERANT AND TEMPERATURE CONTROL, FILTERS AND DAMPERS. CAPACITY AS INDICATED ON SCHEDULE.

1. HVAC UNITS SHALL BEAR "UL" LABEL. UNIT SHALL COMPLY WITH AGA SAFTY STD, AND ASHRAE 15 "SAFETY CODE FOR MECHANICAL REFIGERATION".
2. INSTALL UNIT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS PLUMB AND LEVEL FIRMLY ANCHORED IN INDICATED LOCATION.
3. ACCEPTABLE MANUFACTURERS: TRANE, LENNOX, CARRIER OR EQUAL.

POWER VENTILATORS

A. FURNISH AND INSTALL CENTRIFUGAL AND CABINET EXAUST FAN THAT IS FACTORY FABRICATED AND ASSEMBLED WITH CAPACITY AS SCHEDULED.

1. PROVIDE HANGING VIBRATION ISOLATORS AND NESSESSARY ACCESSORIES. COORDINATE LOCATION AND DIMENSIONS. PROVIDE WALL LOUVER WHERE APPLICABLE.
2. PROVIDE THE FOLLOWING ACCESSORIES: DISCONNECT SWITCH, BIRD SCREEN AND BACK DRAFT DAMPER MOUNTED IN CURB BASE, FACTORY SET TO CLOSE WHEN FAN STOPS.
3. FANS SHALL COMPLY WITH "UL" 705 "POWER VENTILATORS" AND SHALL BE LISTED AND LABLED. MOTOR AND ELECTRICAL ACCESSORIES SHALL COMPLY WITH NEMA STANDARDS AND "NFPA 70" NATIONAL ELECTRICAL CODE.
4. ACCEPTABLE MANUFACTURERS: COOK, GREENHECK AND ACME.

WATER HEATER

A. FURNISH AND INSTALL GAS WATER HEATER THAT IS FACTORY TESTED AND ASSEMBLED. UNIT SHALL BE "UL" LISTED AND LABELED AND COMPLY WITH THE LATEST "PRESSURE VESSEL CODES". UNITS SHALL BE PLUMBED AND WIRED PER MANUFACTURERS WRITTEN INSTRUCTIONS.

1. ACCEPTABLE MANUFACTURERS: LOCKINVAR AND O.A. SMITH.

FIRE PROTECTION SPRINKLER SYSTEM

A. PROVIDE SPRINKLER SYSTEMS AS LAID OUT ON DRAWINGS AND INSTALL IN ACCORDANCE WITH NFPA 13 AND LOCAL AUTHORITY HAVING JURISDICTION.

B. INSTALLER'S QUALIFICATIONS: FIRMS QUALIFIED TO INSTALL AND ALTER FIRE PROTECTION PIPING, EQUIPMENT SPECIALTIES, ACCESSORIES, REPAIR AND SERVICE SUCH EQUIPMENT. A QUALIFIED FIRM IS ONE THAT IS EXPERIENCED (MINIMUM OF 5 PREVIOUS PROJECTS SIMILAR TO SIZE AND SCOPE OF THIS PROJECT) IN SUCH WORK, FAMILIAR WITH PRECAUTIONS REQUIRED, AND IN COMPLIANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. SUBMIT EVIDENCE OF QUALIFICATIONS TO THE ARCHITECT/ENGINEER UPON REQUEST.

C. PROVIDE STEEL PIPE, ASTM A53, SCHEDULE 40 WITH CAST-IRON FITTINGS, ASME B16.4, CLASS 250 AND THREADS ACCORDING TO ASME B1.20.1. ALSO PROVIDE SPECIALTY SPRINKLER FITTING, MECHANICAL- "T" FITTING UL 312 DUCTILE IRON HOUSING WITH PRESSURE RESPONSIVE GASKET, BOLTS AND THREATED OR LOCKING-LUG OUTLET.

D. INLAY IN CEILING PROVIDE PENDANT SPRINKLERS AUTOMATIC WITH HEAT-RESPONSIVE ELEMENT CONFORMING TO UL199. ALSO PROVIDE ESCUTCHEON CEILING-MOUNTED (2) PIECE WITH (1) INCH VERTICAL ADJUSTMENT. FINISH OF SPRINKLER HEAD AND ESCUTCHEON SHALL BE CHROME PLATED. ALSO PROVIDE (2) SPARE SPRINKLER HEADS, LOCKING-LUG OUTLET.

E. IN EXPOSED AREA (NO DROP CEILING) PROVIDE UPRIGHT AUTOMATIC SPRAY TYPE WITH PLAIN BRASS FINISH.

F. PERFORM FILELD ACCEPTANCE TESTS OF EACH FIRE PROTECTION SYSTEM.

1 FLUSH, TEST AND INSPECT SPRINKLER PIPING SYSTEM ACCORDING TO NFPA 13 CHAPTER "SYSTEM ACCEPTANCE".

G. REPLACE PIPING SYSTEM COMPONENTS THAT DO NOT PASS TEST PROCEDURES SPECIFIED, THEN RETEST TO DEMONSTRATE COMPLIANCE. REPEAT PROCEDURE UNTIL SATISFACTORY RESULTS ARE OBTAINED.

1 REPORT TEST RESULTS PROMPTLY AND IN WRITING TO ARCHITECT/ENGINEER.
2 REPORT TEST RESULTS PROMPTLY AND IN WRITING TO AUTHORITY HAVING JURISDICTION, WHERE REQUIRED.

PIPING / PLUMBING

A. GENERAL: FURNISH AND INSTALL WATER, SANITARY, DRAIN, VENT, AND NATURAL GAS PIPING WHERE INDICATED, INCLUDE ALL HANGERS, SUPPORTS ETC... REQUIRED FOR A COMPLETE INSTALLATION.

B. PROVIDE PIPING SYSTEMS LAID OUT AND INSTALLED IN ACCORDANCE WITH LATEST NATIONAL PLUMBING CODE OR INTERNATIONAL PLUMBING CODE.

C. NATURAL GAS PIPING: STD WEIGHT BLACK STEEL, FABRICATED AND INSTALLED IN ACCORDANCE WITH "NFPA 54" AND "ASTM A55" PROVIDE SCREWED GALVANIZED MALLEABLE IRON FITTING IN ACCORDANCE WITH ANSI B165 CLASS 150. CONNECT GAS PIPING WITH DRIPLEG AND SHUT OFF GAS VALVE, COMPLY WITH MANUFACTURERS INSTRUCTIONS.

D. DRAIN PIPING: TYPE "L" COPPER WITH FPC OR PF INSULATION.

E. SANITARY WASTE AND VENT PIPING: PROVIDE CAST IRON HUBLESS PIPE AND FITTINGS CONFORMING TO CISPI 501 WITH CISPI 310 COUPLING JOINTS AND OF SIZES AS INDICATED. PROVIDE ECCENTRIC REDUCERS FOR CHANGES IN WASTE PIPE LINES.

F. DOMESTIC WATER PIPING: PROVIDE COPPER TUBING, TYPE L HARD DRAWN OF SIZES AS INDICATED, CONFORMING TO ASTM B88 WITH EITHER WROUGHT COPPER OR CAST BRASS RECESSED SOLDER JOINT FITTINGS.

1. ADAPTERS FOR CONNECTION TO THREADED VALVES AND FITTINGS SHALL BE CAST BRASS.
2. SOLDER SHALL CONFORM WITH ASTM B88 TIN LEAD-FREE SOLDER.

PIPING / PLUMBING CONT'D

G. PLUMBING WORK SHALL COMPLY WITH STATE PLUMBING CODE AND ALL OTHER AUTHORITY HAVING JURISDICTION.

H. MECHANICAL CONTRACTOR SHALL PAY FOR REQUIRED PERMITS, INSPECTIONS AND TAP-IN FEES.

I. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN OUTS AND PROPER VENTING OF PLUMBING IN ACCORDANCE WITH THE LATEST PLUMBING CODE.

J. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT, BACK FLOW PREVENTERS, VALVES, UNIONS, BY-PASS PIPING AND ALL REQUIRED ACCESSORIES, BY LOCAL AUTHORITIES HAVING JURISDICTION, TO MAKE A COMPLETE AND OPERATING SYSTEM. COMPLY WITH APPLICABLE PLUMBING CODES FOR ALL INSTALLATION.

K. PROVIDE FOR EXPANSION, PROPER HANGERS AND SUPPORTS FOR ALL PIPING. PROVIDE NECESSARY VALVES, UNIONS, DIRTY TRAPS AS REQUIRED FOR EACH PIECE OF EQUIPMENT AND FIXTURES.

L. SANITARY PIPING SHALL SLOPE 1/8"PER FOOT IN DIRECTION OF FLOW.

M. CONTRACTOR SHALL FLUSH SANITIZE ALL PIPING PER CODE REQUIREMENT.

N. WATER SERVICE LINES TO PLUMBING FIXTURES SHALL BE TYPE "L" COPPER FOR UNDERGROUND AND TYPE "M" COPPER FOR ABOVE FLOOR OR PEX IF APPROVED BY LOCAL AHJ.

O. CONTRACTOR SHALL PROVIDE PIPES PENETRATE EXTERIOR WALL AND WEATHER PROOF AS REQUIRES.

PLUMBING FIXTURE SCHEDULE:

CLEANOUTS:

PROVIDE CLEANOUTS AS REQUIRED BY LOCAL CODES. THE FINISH OF COVER PLATES, TOP AND TOP FRAME ACCESS COVERS SHALL BE NICKEL BRONZE, UNLESS OTHERWISE SCHEDULED.

FLOOR DRAIN SCHEDULE:

FD-1 GENERAL FLOOR DRAIN:
LOCATION: TOILETS AND WHERE INDICATED. MODEL NO. Z-415 ADJUSTABLE.
STRAINER, FINISHES AND REMARKS: 5" DIAMETER TYPE "B" STRAINER NICKEL BRONZE WITH INTEGRAL SEEPAGE PAN, CLAMPING COLLARS, EXTENSION SLEEVES OR FRAMES.

FLOOR SINK:
FS-1 GENERAL FLOOR SINK: MFG: ZURN
MODEL #: FD2370-PV3
PIPE DIA.=3"
HEIGHT=8"
LENGTH=12"
MATERIAL OF CONSTRUCTION=PVC
DRAIN MATERIAL=PVC
COLOR/FINISH=WHITE

ROOF SUMPS SHALL BE ZURN, J.R. SMITH, JOSAM OR WADE AS SCHEDULED BELOW:

a. ROOF SUMP: ZURN Z-100EC SMITH #1015-C-U DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, EXTENSION SLEEVE TO MATE ROOF INSULATION THICKNESS AND VANDAL RESISTANT POLY-DOME STRAINER. PROVIDE WITH ZURN Z-190, SMITH #1710 EXPANSION JOINT OR MINIMUM 5'-0" SWING LOOP.
b. OVERFLOW: ZURN Z-100-W3, SMITH #1074-C-U DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, EXTENSION SLEEVE TO MATE ROOF INSULATION THICKNESS AND VANDAL RESISTANT POLY-DOME STRAINER. PROVIDE WITH ZURN Z-190, SMITH #1710 EXPANSION JOINT OR MINIMUM 5'-0" SWING LOOP AND 3" INTERNAL WATER DAM PIPE.

FIXTURE CONNECTIONS SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE:

FIXTURE	SOIL OR WASTE	VENT	TRAP	HOT WATER	COLD WATER
WATER CLOSETS	4"				3/4"
LAVATORY	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"
URINAL	2"	2"	2"		3/4"
KITCHEN SINK	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"
ELECTRIC WATER COOLER	1-1/2"	1-1/2"	1-1/2"		1/2"
MOP SINK	3"	1-1/2"	3"	1/2"	1/2"
FD	3"				

FIXTURES SHALL BE AMERICAN STANDARD, KOHLER OR CRANE. AMERICAN STANDARD MODEL NUMBERS ARE USED TO ESTABLISH A STANDARD.
FIXTURE SUPPORTS SHALL BE ZURN. J.R. SMITH, JOSAM OR WADE.
FLUSH VALVE SHALL BE SLOAN OR ZURN.
TOILET SEATS SHALL BE OPEN FRONT OLSONITE, CHURCH, CENTOCO OR BENEKE.
FAUCETS SHALL BE SYMMONS, CHICAGO OR SPEAKMAN.

PLUMBING SPECIALTIES:
PLUMBING SPECIALTIES SHALL BE JOSAM, J.R. SMITH, WADE, MIFAB, SIOUX CHIEF OR ZURN.

CLEANOUTS: THREADED BRASS PLUGS WITH ZURN Z-1460-9 STAINLESS STEEL COVER IN WALLS AND Z-1400-2 NICKEL BRONZE SCORIATED COVER IN FLOORS.

FLOOR DRAINS: CONTRACTOR HAS THE OPTION OF USING TRAP PRIMERS OR TRAP SEAL DEVICES AS FOLLOWS:

TRAP SEALS SHALL BE PROVIDED FOR ALL FLOOR DRAINS, FLOOR SINKS AND OTHERS TO PREVENT TRAP EVAPORATION. SEALS SHALL BE EQUAL TO SURESEAL, SIZED TO MATCH THE DRAIN TRAP.

TRAP PRIMERS SHALL BE MIFAB, SMITH OR ZURN Z-1022 "SANI-GARD", ALL BRONZE BODY WITH INTERNAL VACUUM BREAKER, ANTI-BACK-SIPHON DESIGN, NON-LIMING OPERATING ASSEMBLY, REPLACEABLE VALVE SEAT, GASKETED BRONZE COVER, CHROME PLATED FINISH. LOCATE TRAP PRIMER VALVES ON THE NEAREST DOMESTIC COLD WATER MAIN SERVING THE SPACE AND PIPE TO FLOOR DRAIN TRAP PRIMER CONNECTION.
PROVIDE HEAT TRAPS IN BOTH HOT AND COLD WATER PIPE RISERS AT WATER HEATERS UNLESS TRAPS ARE INTEGRAL WITH THE HEATERS.

PLUMBING FIXTURE SCHEDULE (VERIFY WITH OWNER/ ARCHITECT)

WC-1 ADA WATER CLOSET
AMERICAN STANDARD, RIGHT WIDTH MODEL 3641.001, TOP SPUD, FLOOR MOUNTED ELONGATED, FLUSHOMETER, SIZE 17" RIM HEIGHT, AMERICAN STANDARD 6047.121.002 MANUAL FLUSH VALVE, BARIATRIC APPLICATION , ADA, VITREOUS CHINA, HIGH EFFICIENCY, ELONGATED, OPEN FRONT, RIGHT WIDTH SEAT, TOP SPUD,
FLUSHOMETER VALVE:SENSOR-OPERATED: AMERICAN STANDARD
SELECTRONIC® DC POWER

LAV-1 LAVATORY:
COUNTER TOP LAVATORIES: AMERICAN STANDARD "CADET", OVAL WHITE VITREOUS CHINA, FITTING LEDGE AND FRONT OVERFLOW, SELF-RIMMING. UNIT SHALL BE DRILLED TO RECEIVE THE SPECIFIED TRIM. SUPPLIES: 1/2" X 3/8", ANGLE SUPPLIES WITH WHEEL STOPS, FLEXIBLE RISERS AND CP ESCUTCHEON PLATES.
TRAP: CP 1-1/2" BENT TUBE, ADJUSTABLE "P" TRAP WITH CLEANOUT, CP TUBING TO WALL AND CP ESCUTCHEON PLATE.
TRIM: DECK MOUNTED, VANDAL RESISTANT, AMERICAN STANDARD "COLONY" MODEL # 2175.502, SINGLE LEVER, WASHERLESS, 4"CENTERSET WITH 3/8" OD COPPER INLETS, AERATOR, 3 GPM MAXIMUM FLOW RESTRICTOR, GRID DRAIN AND 1-1/4" CP TAILPIECE. ALL EXPOSED SURFACES HEAVILY CHROME PLATED.
PHYSICALLY HANDICAPPED LAVATORIES SHALL BE PROVIDED WITH MIXING VALVE. SEE DETAIL ON DRAWINGS. ALSO, INSULATE EXPOSED DRAIN LINES AND HOT AND COLD WATER SUPPLY LINES BELOW PHYSICALLY HANDICAPPED LAVATORIES PER PHYSICALLY HANDICAPPED CODE REQUIREMENTS. VERIFY LOCATION OF PHYSICALLY HANDICAPPED

LAV-2 LAVATORIES:
VITREOUS CHINA, WALL HUNG, REAR OVERFLOW, FAUCET LEDGE, 18X17 SIZE, NO POP-UP DRAIN, WITH DELTA SINGLE LEVER FAUCET, SOAP DISPENSER AMERICAN STANDARD DECLYN 0321-026. ALSO APPROVED ARE BRIGGS, CRANE AND KOHLER.

KS-1 KITCHEN SINK
SINK ELKAY "LUSTERTONE" MODEL LR-1722, 17" X 17" OVERALL 13-1/2" X 16" X 7-1/2" DEEP SINK COMPARTMENT, SOUND DEADENED TYPE 302, 18-8 STAINLESS STEEL, LEDGE BACK, GRIP-RIM SELF-RIMMING FEATURE. UNIT PUNCHED TO RECEIVE SPECIFIED TRIM (3 HOLES).
SUPPLIES: 1/2" X 3/8" ANGLE SUPPLIES WITH WHEEL STOPS, FLEXIBLE RISERS AND CP ESCUTCHEON PLATES.
ELKAY MODEL LK-2442 WITH TWO LEVER HANDLES MIXING FAUCET WITH SWING SPOUT AND AERATOR. EXPOSED SURFACES TO BE CHROME PLATED.
DRAIN: PROVIDE DRAIN TO ACCEPT GARBAGE DISPOSER. DISPOSER SHALL BE SIMILAR TO IN-SINK-ERATOR PRO COMPACT MODEL PRO-COM CONTINUOUS FEED TYPE, 3/4 HP, 120V MOTOR, PLUG AND CORD.
TRAP: 1-1/2" CP CAST BRASS WITH ADJUSTABLE "P" TRAP WITH CLEANOUT AND TUBING OUTLET TO WALL WITH CP CAST BRASS ESCUTCHEON.

HS-1 EXAM RM. SINK
"ELKAY" MODEL "CHSB1716C" TYPE 304 (18-8) STAINLESS STEEL HAND SINK. FULL LENGTH 7" HIGH BACKSPLASH EXPOSED SURFACES HAVE A BRUSHED FINISH. FURNISHED WITH WALL HANGER . FAUCET: LKB 400 CHROME PLATED GOOSENECK SPOUT WITH AIRATOR DRAIN: LKB8. TYPE 304 STAINLESS STEEL BODY AND GRID STRAINER 1-1/2" O.D.

SS-1 SERVICE SINKS
POWERS-FIAT MODEL NO. MSB-2424, ONE-PIECE, MOLDED STONE UNIT HAVING 10" HIGH WALLS WITH NOT LESS THAN 1" WIDE SHOULDERS. COLOR SHALL BE #231 WHITE DRIFT. DRAIN BODY SHALL BE FACTORY INSTALLED STAINLESS STEEL #302 WITH COMBINATION DOME STRAINER AND LINT BASKET. THE DRAIN BODY SHALL PROVIDE FOR A LEAD CAULKED JOINT TO A 3" IPS SILICONE SEALANT SHALL BE PLATE #833-AA.

a. SUPPLY FITTING: VANDAL RESISTANT CHICAGO FAUCET NO. 897, COMBINATION SERVICE SINK FITTING WITH VACUUM BREAKER, 3/4" HOSE THREAD RIGID SPOUT, NO. 369 LEVER HANDLES, WALL BRACE PAIL HOOK AND NO. "R" 1/2" FLANGED FEMALE ADJUSTABLE ARMS WITH INTEGRAL STOPS. ALL EXPOSED SURFACES SHALL BE HEAVILY CHROME PLATED.
b. RIM GUARD: VINYL BUMPER GUARDS EQUAL TO PLATE #E-77-AA SHALL BE PROVIDED ON ALL SIDES NOT ADJACENT TO WALL.
c. WALL GUARD: STAINLESS STEEL MODEL MSG2424.
d. HOSE BRACKET: PLATE #832-AA, 18 GAUGE, NO. 302 STAINLESS STEEL HOSE BRACKET WITH RUBBER GRIPED COMPLETE WITH 30" LONG FLEXIBLE, CLOTH REINFORCED, 5/8" HEAVY DUTY RUBBER HOSE WITH 3/4" CHROME COUPLING AT HOSE END.

U-1 URINAL:
AMERICAIN STANDARD "ALLBROOK", 1.0 GPF CONSUMPTION, WHITE VITREOUS CHINA WALL HUNG SIPHON JET WITH 3/4" INLET TOP SPUD, FLUSHING RIM 2" WALL OUTLET, WALL HANGERS. FLUSH VALVE: SLOAN ROYAL 186 WITH BAK-CHEK ANGLE SCREW RIVER STOP AND CAP. ADJUSTABLE TAILPIECE, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLINGS FOR 3/4" TOP SPUD, WALL AND SPUD FLANGES. CARRIER: SMITH FIG. 637. INSTALL FIXTURE IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF LABOR CONSTRUCTION CODE "BARRIER FREE" REQUIREMENTS AND ADA REQUIREMENTS.

EWC-1 ELECTRIC WATER COOLER
WALL HUNG, ADA COMPLIANT. ELKAY VERSATILE BI-LEVEL FILTERED WATER COOLER, MODEL LZSTLG8.
HIGH EFFICIENCY ELECTRIC, REFRIGERATED WATER COOLER.
MODEL LZSTLG8 SHALL DELIVER 8 GPH OF 50 °F DRINKING WATER AT 90 °F AMBIENT AND 80 °F INLET WATER.
UNIT SHALL MEET ADA GUIDELINES.
UNIT SHALL BE LEAD-FREE DESIGN WHICH IS CERTIFIED TO NSF/ANSI 61 AND 372 AND MET FEDERAL AND STATE LOW LEAD REQUIREMENTS.
UNIT SHALL BE CERTIFIED TO UL399 AND CAN/CSA 22.2 NO. 120.
UNIT SHALL BE GREEN SPEC LISTED.
STAINLESS STEEL BASIN WITH INTEGRAL DRAIN.

DUCT SMOKE DETECTORS:

GENERAL:
DUCT SMOKE DETECTORS FOR AIR HANDLING UNITS SHALL BE 24VDC PHOTOELECTRIC TYPE WITH 2 AUXILIARY CONTACTS, ONE FOR FAN SHUTDOWN AND ONE FOR ANNUNCIATION. DETECTORS SHALL BE COMPLETE WITH SAMPLING TUBES.

FIRE DAMPERS:

PROVIDE FIRE DAMPERS EQUAL TO UNITED ENERTECH, PHILLIPS, RUSKIN, AMERICAN WARMING, GREENHECK OR AIR BALANCE 119BL WITH BLADES OUT OF THE AIR STREAM, WHERE SHOWN ON THE DRAWINGS AND/OR WHERE REQUIRED TO MAINTAIN WALL OR FLOOR FIRE RATING. 1-1/2 HOUR, 2 HOUR OR 3 HOUR RATING AS REQUIRED TO MAINTAIN THE FIRE INTEGRITY OF THE WALL OR FLOOR. 165 DEGREE F. LINK. WHERE DAMPERS ARE PROVIDED AT WALL GRILLES OR REGISTERS, GRILLES ARE TO BE THE SAME OVERALL SIZE OF THE DAMPER.

DIFFUSERS AND REGISTERS

DIFFUSERS AND REGISTERS SHALL BE MANUFACTURED BY PRICE, CARNES, TUTTLE & BAILEY, TITUS OR KRUEGER. PROVIDE DAMPERS AT EACH DIFFUSER AND REGISTER. PROVIDE PLASTER FRAME FOR LAY-IN TYPE DIFFUSERS MOUNTED IN GYPSUM BOARD CEILINGS. BAKED OFF-WHITE ENAMEL FINISH UNLESS NOTED.

SEE DRAWING SCHEDULE.

COMBUSTION AIR AND FLUE GAS VENTING

COMBUSTION AIR INTAKES AND FLUE GAS VENTING FOR SEALED COMBUSTION/ DIRECT VENT UNIT HEATERS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS FOR MATERIAL AND TERMINATION.

SHEET METAL AND ACCESSORIES

A. FURNISH AND INSTALL GALVANIZED DUCTWORK AND ACCESSORIES AS INDICATED ON DRAWING.

B. ALL SHEET METAL WORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE " DUCT MANUAL AND SHEET METAL CONSTRUCTION FOR VENTILATING AND AIR CONDITIONING SYSTEM" PUBLISHED BY "SMACNA". DUCTS SHALL BE SECURELY SUPPORTED AND ANCHORED TO THE BUILDING CONSTRUCTION WITH DOUBLE-STRAP HANGERS NOT EXCEEDING FOUR (4') FEET SPACING. GAGES FOR ROUND AND RECTANGULAR LOW PRESSURE SHALL BE PER SMACNA 0-2 INCHES STATIC PRESSURE CLASS

C. FURNISH AND INSTALL FLEXIBLE ROUND DUCTS TO AIR DEVICES GENFLEX TYPE SLR FAN GENFLEX MODEL #SM-2DE CONICAL FITTING AT NEW RUN OUTS FROM MAIN. SECURE ALL FLEXIBLE DUCT CONNECTIONS WITH PANDUIT ADJUSTABLE DIAMETER RYLON CLAMPS.

D. FURNISH AND INSTALL ALL AIR DEVICES (DIFFUSERS, GRILLES) AS SCHEDULED. ACCEPTABLE MANUFACTURERS: TITUS, CRANE AND KRUGER.

INSULATION

A. GENERAL: PROVIDE PIPE AND DUCT INSULATION AS DESCRIBED BELOW. INCLUDE ALL ADHESIVE, SEALERS, JACKETS ETC... FOR A COMPLETE INSTALLATION. EXPOSED ROUND DUCTWORK IS NOT TO BE INSULATED.

B. WATER PIPING: GLASS FIBER COVERING 0.26K FACTOR @ 75 °F, SINGLE CYLINDRICAL CONSTRUCTION.

C. SUPPLY DUCTS: FDB-FIBERGLASS DUCT BLANKET, FOIL FACED FIBERGLASS DUCT WRAP BLANKET "UL" LABELED REINFORCED VAPOR BARRIER JACKET, 0.3 K FACTOR AT 75 °F.

1. LOW PRESSURE DUCT WORK: 1 1/2 INCH

OUTDOOR DUCTWORK INSULATION:
OUTDOOR SUPPLY AND RETURN DUCT WORK SHALL BE INSULATED WITH DOUBLE WALL WATER PROOF, 2" THICK. INSULATION, 1lb/CFT DENSITY, THERMAL CONDUCTIVITY OF 0.26 BTU/HR/FT/F°. (DOUBLE WALL SHALL CONSIST OF INTERIOR GALVANIZED SHEET METAL AND OUTER WALL TO BE ALUMINUM JACKETING.

TEST AND ADJUSTMENTS:

A. TEST AND ADJUSTMENTS OF ALL SPECIFIED SHALL BE MADE BY THIS CONTRACTOR, INCLUDING THE PAYMENT OF ALL COSTS OF SUCH TESTS. AIR BALANCE REPORT SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO RELEASE OF FINAL PAYMENT.

B. BALANCE AIR QUALITIES TO WITHIN ±5% AND LOCK VOLUME REGULATORS. AIR BALANCING SHALL COMPLY WITH THE LATEST STANDARDS OF THE ASSOCIATED AIR BALANCE COUNCIL OR THE NATIONAL ENVIROMENTAL BALANCING BUREAU.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL REQUIRED CHANGES IN THE SHEAVES, BELTS AND DAMPERS AND ALSO THE ADDITION OF DAMPERS AS REQUIRED FOR CORRECT BALANCE.

D. ALL AUTOMATIC TEMPERATURE CONTROLS SHALL BE ADJUSTED AND SET FOR PROPER OPERATION.

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN
RESIDENTIAL
COMMERCIAL
INDUSTRIAL
G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM
ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN 48326

DRAWN:	DESIGNED:	CHECKED:
SSA	DG	DG

SCALE : 1/8" = 1'-0"
FILE NAME : 19059_MECH
JOB #: 19059
SHEET TITLE
MECHANICAL SPECIFICATIONS
SHEET #
M.500

GENERAL NOTES & SPECIFICATIONS

1. CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY CHECK THE FIELD CONDITIONS PRIOR TO SUBMITTING HIS BID.
2. CONTRACTOR SHALL BE PREPARED TO WORK CONTINUOUSLY AND EXPEDITIOUSLY TO COMPLETE THE WORK RIGHT ON SCHEDULE FOR A COMPLETE LIGHTING AND POWER SYSTEM.
3. CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES.
4. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, CODES AND REGULATIONS AS WELL AS APPLICABLE CURRENT STANDARDS.
5. CABINETS, MOTOR FRAMES, STARTERS, CONDUIT SYSTEM, PANELBOARDS, ETC., SHALL BE GROUNDED IN ACCORDANCE WITH THE LATEST N.E.C. AND LOCAL CODES.
6. MATERIALS SHALL BE NEW AND BEAR THE U.L. LABEL OR LISTING, WHEREVER STANDARDS HAVE BEEN ESTABLISHED.
7. COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES WITH OTHER TRADES BEFORE INSTALLATION.
8. ALL WALL MOUNTED CONTROL DEVICES, LIGHTING SWITCHES SHALL BE 4'-0" A.F.F. UNLESS OTHERWISE NOTED ON THE DRAWINGS. SWITCHES SHALL BE 20A, 120/277V, 1 POLE, 2 POLE, 3 AND 4 WAY AS INDICATED, HUBBELL #1221 SERIES OR EQUAL.
9. NOT USED.
10. WALL MOUNTED DISCONNECT SWITCHES AND CONTROL PANELS SHALL BE 6'-0" TO TOP ABOVE FINISH FLOOR.
11. EXPANSION FITTINGS SHALL BE PROVIDED FOR ALL CONDUIT CROSSING BUILDING EXPANSION JOINTS.
12. ALL WEATHERPROOF (WP) DUPLEX RECEPTACLES SHALL BE INSTALLED HORIZONTALLY SUCH THAT COVER DOORS OPEN UPWARD.
13. ALL PENETRATIONS OF FIRE WALLS OR FLOORS SHALL BE SEALED AFTER INSTALLATION OF CONDUIT WITH A FIRE RETARDANT SEALANT THAT IS RATED THE SAME AS THE FIRE WALL OR FLOOR.
14. PROVIDE A GREEN GROUND CONDUCTOR IN ALL SYSTEMS CONDUITS INCLUDING BRANCH CIRCUIT CONDUITS FOR LIGHTING AND RECEPTACLES PER NEC TABLE 250-95.
15. ALL CONDUIT SHALL BE 3/4"C. (MIN.) AND THEY SHALL BE OF SIZES REQUIRED TO ACCOMMODATE NUMBER OF CONDUCTORS IN ACCORDANCE WITH NEC WIRING TABLES OR AS INDICATED ON DRAWINGS, WHICHEVER IS LARGER.
16. FEEDERS SHALL BE TYPE "THW" OR "XHHW", AND ALL 120 VAC LIGHTING AND RECEPTACLE CIRCUITS RUN 2#12 (THWN/THHN) MIN. + GND IN 3/4"C MIN. TO THE LIGHTING PANELBOARD INDICATED UNLESS NOTED OTHERWISE. HOME RUN TO PANEL IF MORE THAN 80' SHALL BE #10 IN 3/4"C. OR CONTRACTOR SHALL USE A CONDUCTOR SO THAT VOLTAGE DROP IS LESS THAN 2%. ALL WIRE SHALL BE COPPER, HAVE 600 VOLT INSULATION AND INSTALLED IN CONDUIT.
17. RECEPTACLES SHALL BE DUPLEX GROUNDING TYPE 20A, 125V, HUBBELL #5362 OR EQUAL. SPECIAL PURPOSE RECEPTACLES 30A, 40A, 50A-2P OR 3P, ETC., SHALL BE SPECIFICATIONS GRADE.
18. WALL PLATES FOR SWITCHES, RECEPTACLES AND TELEPHONE OUTLETS SHALL BE SUPER STAINLESS STEEL, TYPE 302, HUBBELL #93000 SERIES OR EQUAL.
19. SINGLE PHASE MOTOR STARTERS SHALL HAVE MANUAL TOGGLE SWITCH WITH THERMAL OVERLOADS, FLUSH MOUNTED WITH PILOT LIGHT, ALLEN-BRADLEY #600 OR EQUAL.
20. THREE PHASE MOTOR STARTERS SHALL BE MAGNETIC TYPE, WITH FUSED CONTROL TRANSFORMER (120 VOLT SECONDARY) AND AUXILIARY CONTACTS AS REQUIRED, ALLEN BRADLEY #712 OR EQUAL.
21. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, FUSED OR NON-FUSED AS INDICATED, IN A NEMA 1 OR 12 ENCLOSURE, DISCONNECT SWITCHES INSTALLED OUTDOOR SHALL BE NEMA 3R ENCLOSURE, CUTLER-HAMMER, SQUARE D, OR G.E.
22. ALL LIGHTING FIXTURES TO BE PROVIDED BY (CLARUS LIGHTING, INC.) AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE.
23. ALL LIGHTING CONTROL SYSTEM TO BE PROVIDED BY (CLARUS LIGHTING, INC.) TOUCHE'.
24. ALL CABLES & MATERIALS INSTALLED IN A PLENUM RETURNED CEILING SHALL BE PLENUM RATED.
25. DISRIBUTION PANELBOARD, OR PANELBOARDS SHALL BE SIEMENS, SQUARE D, OR EATON, SIZE ON THE DRAWINGS.
26. FOR BRANCH CIRCUIT PANELBOARD TERMINATION AND CIRCUITRY, REFER TO PANEL SCHEDULES.
27. FOR TYPE OF LIGHTING FIXTURES REFER TO LIGHTING FIXTURE SCHEDULE.
28. ALL ELECTRICAL EQUIPMENT MOUNTED ON EXTERIOR WALLS SHALL HAVE A 1/2" MIN. AIR SPACE BETWEEN WALL AND EQUIPMENT. PROVIDE A NON-CORROSIVE SPACERS AND BRACKETS AS REQUIRED. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE NEMA 3R ENCLOSURE.
29. VERIFY ALL ROUGH-IN LOCATIONS, FINAL CONNECTIONS, MOUNTING HEIGHTS, VOLTAGES AND PHASES WITH OTHER TRADES EQUIPMENT SUPPLIERS SHOP DRAWINGS PRIOR TO INSTALLATION OF EQUIPMENT. FAILURE TO DO SO SHALL RESULT IN NO EXTRA CHARGE TO THE OWNER.
30. EXACT LOCATIONS OF ELECTRICAL EQUIPMENT MAYBE ADJUSTED IN THE FIELD TO AVOID EXISTING AND UNEXPECTED CONSTRUCTION OBSTACLES.
31. VERIFY EXACT LOCATION OF ALL CONTROL PANELS ETC., FOR MECHANICAL EQUIPMENT, AND WIRE ACCORDINGLY FOR A COMPLETE FUNCTIONAL SYSTEM.

ABBREVIATIONS

A	AMPS
AC	ALTERNATE CURRENT
AFF	ABOVE FINISH FLOOR
AMP	AMPLIFIER
BKR	BREAKER
C,CND	CONDUIT
CUH	CABINET UNIT HEATER
CAT. NO.	CATALOG NUMBER
CKT.	CIRCUIT
CLG.	CEILING
CONT.	CONTRACTOR
C/T	CURRENT TRANSFORMER
D	DUCT SMOKE DETECTOR
D.E.CO.	DETROIT EDISON COMPANY
DN.	DOWN
DISC.	DISCONNECT
EGCP	EMERG. GENERATOR CONTROL PANEL
ELECT.	ELECTRICAL
EF	EXHAUST FAN
EXIST.	EXISTING
F	FIRE
FIXT.	FIXTURE
FL	FLOOR
GND.,G.	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSE POWER
KVA	KILO VOLT AMPERE
L,LTG.	LIGHTING
M.B.	MAIN BREAKER
MECH.	MECHANICAL
MIC	MICROPHONE
MIN.	MINIMUM
MTD	MOUNTED
N.T.S.	NOT TO SCALE
NO.	NUMBER
PNL	PANEL
PWR	POWER
R	RECEPTACLE
RM	ROOM
SD	SMOKE DETECTOR
SHT	SHEET
SW	SWITCH
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
VA	VOLT AMPERE
V	VOLT
W	WATTS
W/	WITH
W/O	WITHOUT
WP	WEATHER PROOF
XFMR	TRANSFORMER

GENERAL REQUIREMENTS

A. CODES:

1. THE WORK SHALL COMPLY WITH THE CURRENT NATIONAL ELECTRIC CODE AND ALL APPLICABLE CODES.

B. COORDINATION:

1. THE WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES TO AVOID INTERFERENCE. REFER TO CIVIL, ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS FOR CEILING HEIGHTS, ROOM FINISHES, DOOR SWINGS, BUILDING DIMENSIONS, LOCATION AND SIZES OF DUCTS, PIPES AND MECHANICAL EQUIPMENT ETC.. PROVIDE ADDITIONAL SUPPORT FOR RACEWAYS, BOXES, SWITCHES, CIRCUIT BREAKERS, MOTOR CONTROLLERS, FIXTURES AND THE LIKE. WHERE THE BUILDING STRUCTURE IS NOT ADAPTED OR SUITABLE FOR MOUNTING THE SAME DIRECTLY THERE ON. RACEWAYS SHALL NOT BE USED AS SUPPORTS FOR BOXES OR OTHER ELECTRICAL EQUIPMENT.
2. IT SHALL BE THE CONTRACTOR'S REPONSIBILITY TO VERIFY THAT ALL EQUIPMENT FURNISHED UNDER OTHER TRADES IS COMPATIBLE WITH THE ELECTRICAL FEEDER PROVIDED UNDER THE ELECTRICAL TRADE. CASES OF DISCREPENCY MUST BE BROUGHT TO THE ENGINEER ATTENTION.
3. COORDINATE & VERIFY LOCATION OF ALL DEVICES WITH EQUIPMENT VENDORS AND MILLWORK SUPPLIERS BEFORE INSTALLATION OF DEVICES.
4. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERALLY THE LOCATIONS OF MATERIALS AND EQUIPMENT. THESE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE.
5. PROVIDE ARC FLASH PROTECTION FIELD MARKING PER 2017 NEC ART. 110.16.

C. TESTING:

1. THE CONTRACTOR SHALL MAKE ALL TESTS, ADJUSTMENTS, AND TRIAL OPERATIONS REQUIRED TO PLACE THE SYSTEM IN BALANCED AND SATISFACTORY OPERATING CONDITION.

D. WARRANTY:

1. WHEN THE JOB IS COMPLETED, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH CERTIFICATE OF APPROVAL FROM THE LOCAL INSPECTION AUTHORITY. THE CONTRACTOR SHALL GIVE THE OWNER A WRITTEN GUARANTEE THAT HE WILL MAKE GOOD, AT HIS OWN EXPENSE, ANY DEFECTS IN MATERIALS OR WORKMANSHIP WHICH MAY DEVELOP WITHIN TWO (2) YEARS FROM THE DATE OF FINAL ACCEPTANCE.

SITE ELECTRICAL NOTES

1. CADWELD #1/0 BARE COPPER GROUND WIRE TO GROUND ROD (3/4" X 15'-0"). TOP OF GROUND ROD SHALL BE 12" MIN. BELOW GRADE.
2. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF EXISTING UTILITY AND THE EXACT LOCATION OF UTILITY CO. CONCRETE PAD MOUNTED TRANSFORMER.
3. PRIOR TO INSTALLATION OF THE CONCRETE PAD, COORDINATE THE WORK WITH UTILITY CO. FOR SPECIFIC DETAIL OF GROUNDING SYSTEM INSTALLATION OF THE TRANSFORMER.
4. COORDINATE ALL NEW ELECTRICAL UNDERGROUND WORK WITH NEW AND EXISTING UNDERGROUND UTILITIES BEFORE INSTALLATION.
5. PROVIDE WATERTIGHT HUBS AT CONDUIT ENTRANCES TO ALL ENCLOSURES MOUNTED OUTDOOR AND TO ALL WATERTIGHT (NEMA 4) ENCLOSURES MOUNTED INDOORS.
6. ALL EXISTING DUCTS, MANHOLES, ETC. ARE APPROXIMATE LOCATIONS ONLY. THE ELECTRICAL CONTRACTOR SHALL VERIFY EXACT LOCATIONS IN THE FIELD.
7. EXACT LOCATIONS MAYBE ADJUSTED IN THE FIELD TO AVOID EXISTING AND UNEXPECTED CONSTRUCTION OBSTACLES.
8. IT SHALL BE THE CONTRACTOR RESPONSIBILITY TO EXERCISE EXTREME CAUTION WHILE EXCAVATING TO AVOID DAMAGE TO ANY BURIED UTILITY LINES, PIPING, CONDUIT, ETC., CONTRACTOR SHALL REPAIR OR REPLACE TO THE OWNER SATISFACTION ANY AND ALL DAMAGED UTILITY LINES, PIPING, CONDUIT, ETC., WHICH MAY BECOME DAMAGED DURING EXCAVATION OF THE NEW WORK AT NO EXTRA COST.

LIGHTING CONTROL LEGEND

	MASTER INTERFACE PANEL
	WS-TS-C-WHT 4.3" COLOR TOUCHSCREEN WALL STATION
	SW-TS-M MONOCHROME TOUCHSCREEN WALL STATION
	OAC-DT-1000-R
	OSW-D-010-W
	ONW-D-1001-MV-W
	ROOM MANAGER (2) 0-10V CHANNELS, (2) BRANCH PORTS, (2) SMART PORTS, (2) DIGITAL INPUT/OUTPUTS PORTS, D=DUAL ROOM MODE
	LRM-2P-120/277-0/10 LOCAL DIMMER MODULE - 2 POLE, (2) 0-10V CHANNELS, (2) DIGITAL INPUT PORTS, (3) SMART PORTS
	SP20-MV
	SS-SF-WHT SINGLE-FUNCTION SMART SWITCH (CONNECT TO SMART BUS)
	SMAOS-D-360-L-S-W SMART SENSOR DUAL TECHNOLOGY LOW HEIGHT
	SS-2B-WHT SMART SWITCH 2-BUTTON ON (RAISE)/OFF(LOWER)
	LRM-2P-120/347 LOCAL RELAY MODULE - 2 POLE, (2) ISOLATED RELAYS, (2) DIGITAL INPUT PORTS, (3) SMART PORTS
	DI-PC DIGITAL INPUT PHOTO CELL

ELECTRICAL SYMBOLS LIST

SYMBOLS	DESCRIPTION
	NOTE: NOT ALL ELECTRICAL SYMBOLS SHOWN ARE USED FOR THIS PROJECT.
	CONDUIT RUN EXPOSED
	CONDUIT RUN CONCEALED
	HOME RUN TO PANEL
	FLEXIBLE CONDUIT
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP
3	INDICATES BRANCH CIRCUIT #3 FROM A DESIGNATED PANEL. SEE FLOOR PLAN
4	INDICATES 480V, 3Ø MAIN POWER DISTRIBUTION PANEL (MDP) CIRCUIT #4
A,7	INDICATES PANELBOARD LP-A, BRANCH CIRCUIT #7
	LIGHTING PANEL 480/277V (NORMAL - SURFACE OR FLUSH)
	RECEPTACLE PANEL 208/120V (NORMAL - SURFACE OR FLUSH)
	MAIN DISTRIBUTION PANELBOARD 480/277V - MDP
PNL-"A" PNL-"B"	PANEL DESIGNATION
C/T	UTILITY CURRENT TRANSFORMER AND SECONDARY METER
	4'X8'X3/4" TREATED PLYWOOD BOARD FOR COMMUNICATIONS SYSTEM
	WIREMOLD SEPARATE CHANNEL FOR POWER/VOICE/DATA
	VOICE/DATA JACK - VERIFY MOUNTING IN THE FIELD (COORDINATE W/OWNER)
	CONBINATION DUPLEX RECEPTACLE, & (V/D) GROUNDING TYPE, FLOOR MTD
	POWER CONNECTION
	DUPLEX RECEPTACLE, GROUNDING TYPE, WALL MOUNTED 18" AFF
	OVER THE COUNTER DUPLEX RECEPTACLE, 6" ABOVE COUNTER
GFI	OVER THE COUNTER DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTER (GFI) WALL MOUNTED 6" ABOVE COUNTER, OR 42" AFF
GFI	GROUND FAULT INTERRUPTER (GFI) DUPLEX RECEPTACLE, 18" AFF
WP	WEATHERPROOF DUPLEX RECEPTACLE
C	DUPLEX RECEPTACLE - CEILING MTD - COORDINATE IN THE FIELD W/OWNER
F	DUPLEX RECEPTACLE - FLOOR MTD - COORDINATE IN THE FIELD W/OWNER
	250V, 2P - PLUG - COORDINATE IN THE FIELD FOR NEMA CONFIGURATION
$	SINGLE POLE SWITCH
$3	THREE WAY SWITCH
$T	MANUAL SWITCH WITH THERMAL OVERLOAD PROTECTION
	DISCONNECT SWITCH - FUSED
	DISCONNECT SWITCH - UNFUSED
J	JUNCTION BOX OR PULL BOX - SIZED PER NEC
	SINGLE PHASE MOTOR
	THREE PHASE MOTOR
	FIRE ALARM - HORN/STROBE LIGHT
	FIRE ALARM - STROBE LIGHT
	FIRE ALARM - HORN
	FIRE ALARM - PULL STATION
D	FIRE ALARM - DUCT DETECTOR
H	FIRE ALARM - HEAT DETECTOR
S	FIRE ALARM - SMOKE DETECTOR
FACP	FIRE ALARM - CONTROL PANEL

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN

DRAWN:	DESIGNED:	CHECKED:
IH	IH	GA

SCALE : NONE

FILE NAME : 19050_E.001

JOB #: 19059

SHEET TITLE
ELECTRICAL NOTES LEGEND

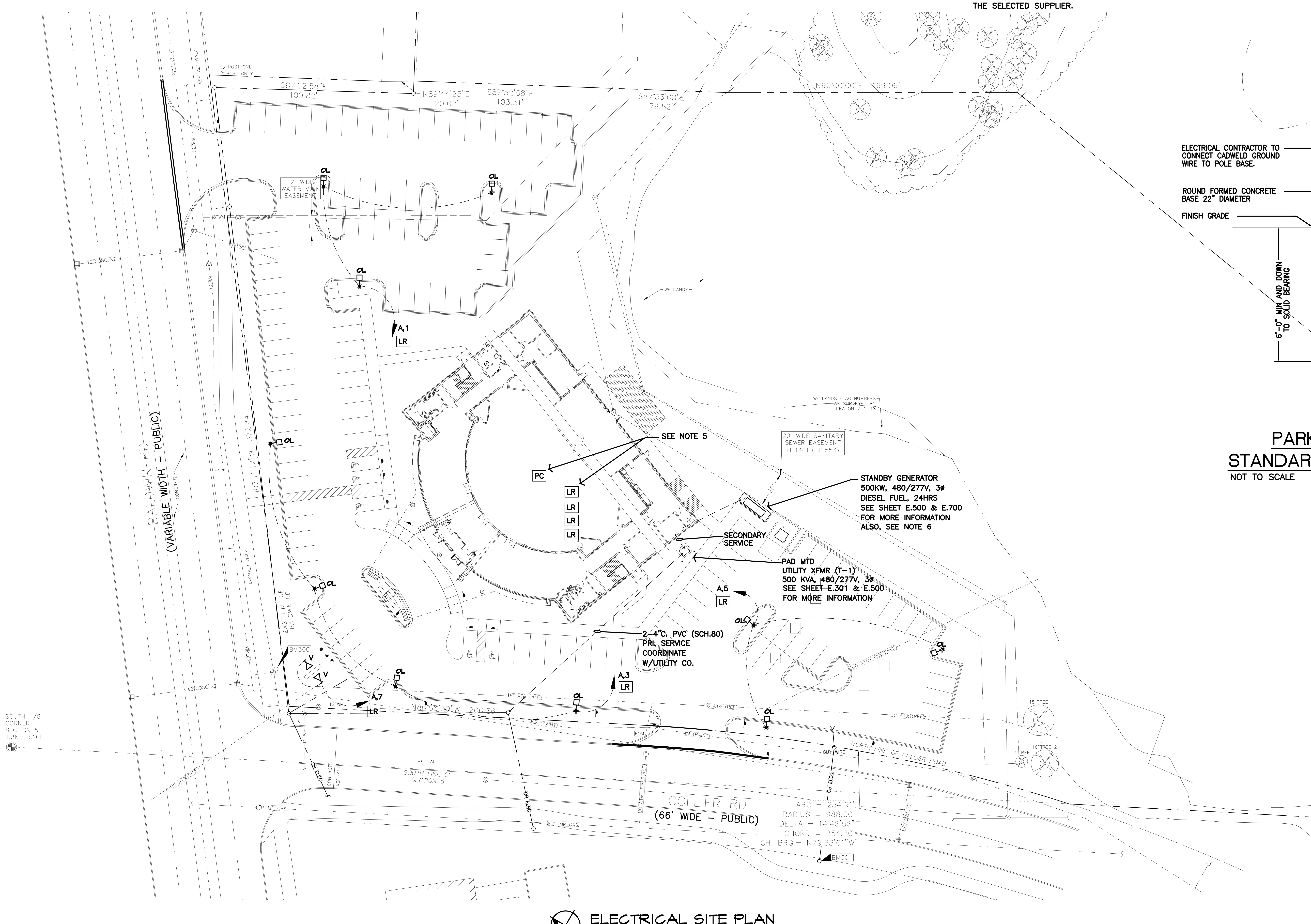
SHEET #
E.001

NOTES:

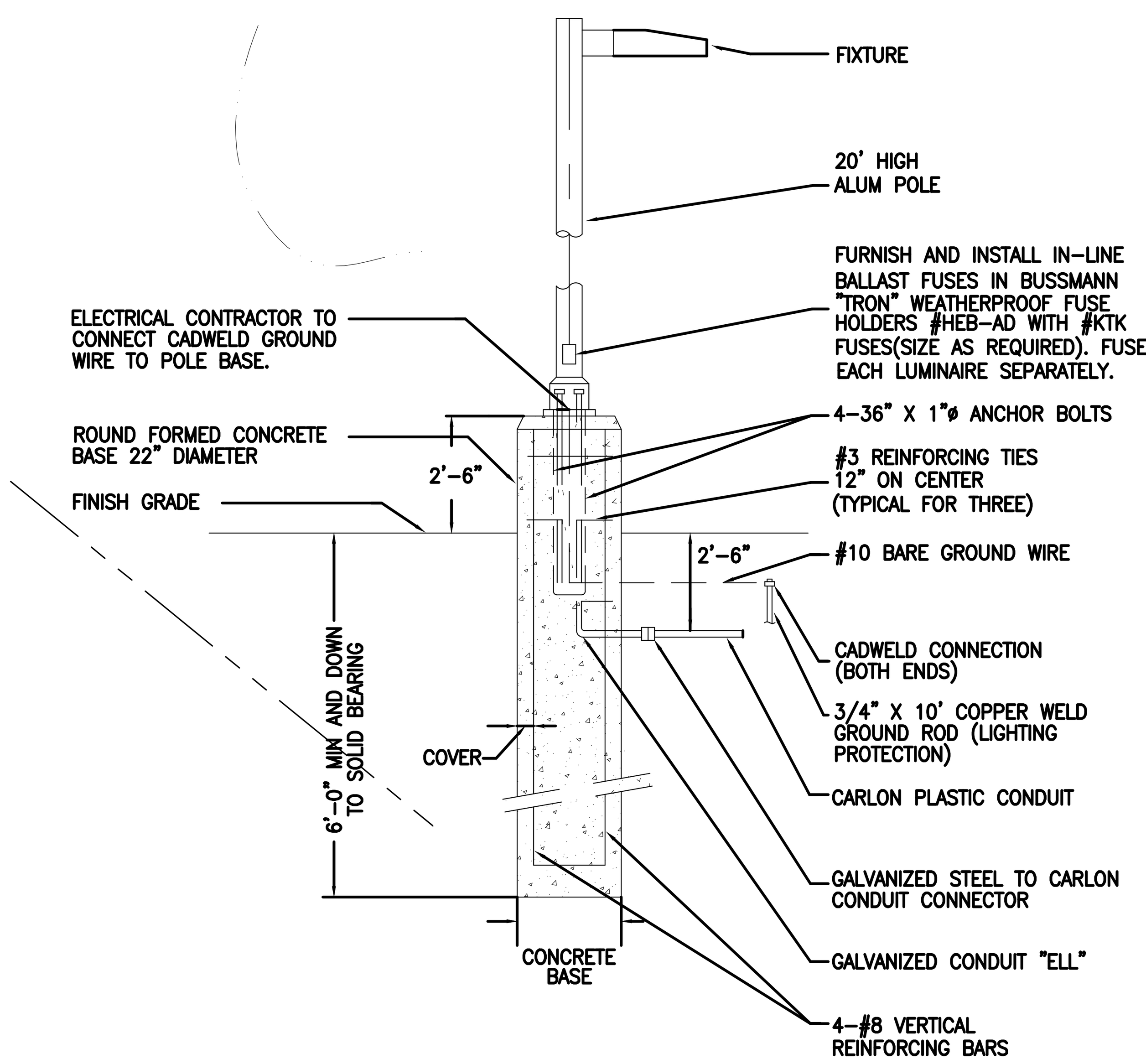
1. ELECTRICAL CONTRACTOR SHALL INSTALL TRANSFORMER PADS PER UTILITY STANDARD DRAWINGS, UNDERGROUND DUCT BANKS AND ALL SECONDARY WIRING FROM TRANSFORMERS TO BUILDING POWER EQUIPMENT. ALL EXCAVATION, TRENCHING AND BACKFILLING SHALL BE PROVIDED BY TRADE CONTRACTOR. INSTALL GUARD POSTS PER UTILITY COMPANY REQUIREMENT. UTILITY SERVICE PLANNER SHALL BE CONSULTED FOR REVIEW AND APPROVAL OF FINAL PAD LAYOUT AND GUARD POSTS LOCATIONS
2. TELEPHONE SERVICE WILL BE PROVIDED BY THE TELEPHONE COMPANY. PROVIDE TELEPHONE CONDUIT FROM SERVICE POINT TO TELEPHONE SERVICE EQUIPMENT ROOM. COORDINATE CONDUIT TERMINATION WITH TELEPHONE COMPANY.
3. COORDINATE TV CABLE SERVICE WITH LOCAL CABLE TV COMPANY.
4. COORDINATE LIGHT POLE MOUNTING HEIGHTS AND LOCATION WITH ARCHITECT AND CIVIL SITE UTILITIES.
5. ALL OUTDOOR LIGHTING TO BE CONTROLLED BY CONTACTOR/PHOTOCELL/TIMER. VERIFY WITH CLIENT AND CLARUS LIGHTING SUPPLIER. (TOUCHE SYSTEM)
6. PROVIDE 550KW STANDBY GENERATOR, (KOHLER), DIESEL FUEL TANK FOR 48HRS. COORDINATE EXACT LOCATION AND DIMENSIONS WITH CIVIL TRADE AND THE SELECTED SUPPLIER.

3 WORKING DAYS
BEFORE YOU DIG
CALL MISS DIG
1-800-482-7171
(TOLL FREE) for the location of underground utilities

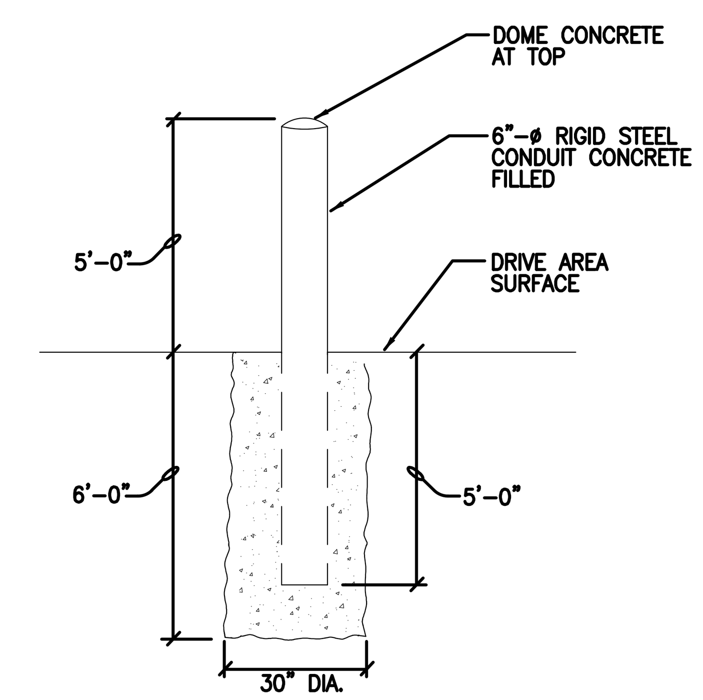
Contractor Note:
The locations of existing underground utilities are shown in an approximate way only. The contractor shall determine the exact location of all existing utilities before commencing work. He agrees to be fully responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all underground utilities.



ELECTRICAL SITE PLAN
SCALE: 1"= 30'-0"



PARKING LOT LIGHTING STANDARD WITH CONCRETE BASE
NOT TO SCALE



CONCRETE BUMPER POST DETAIL
NO SCALE:

ISSUED FOR	DATE
PERMITS	08.23.2021

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24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

GAV ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN

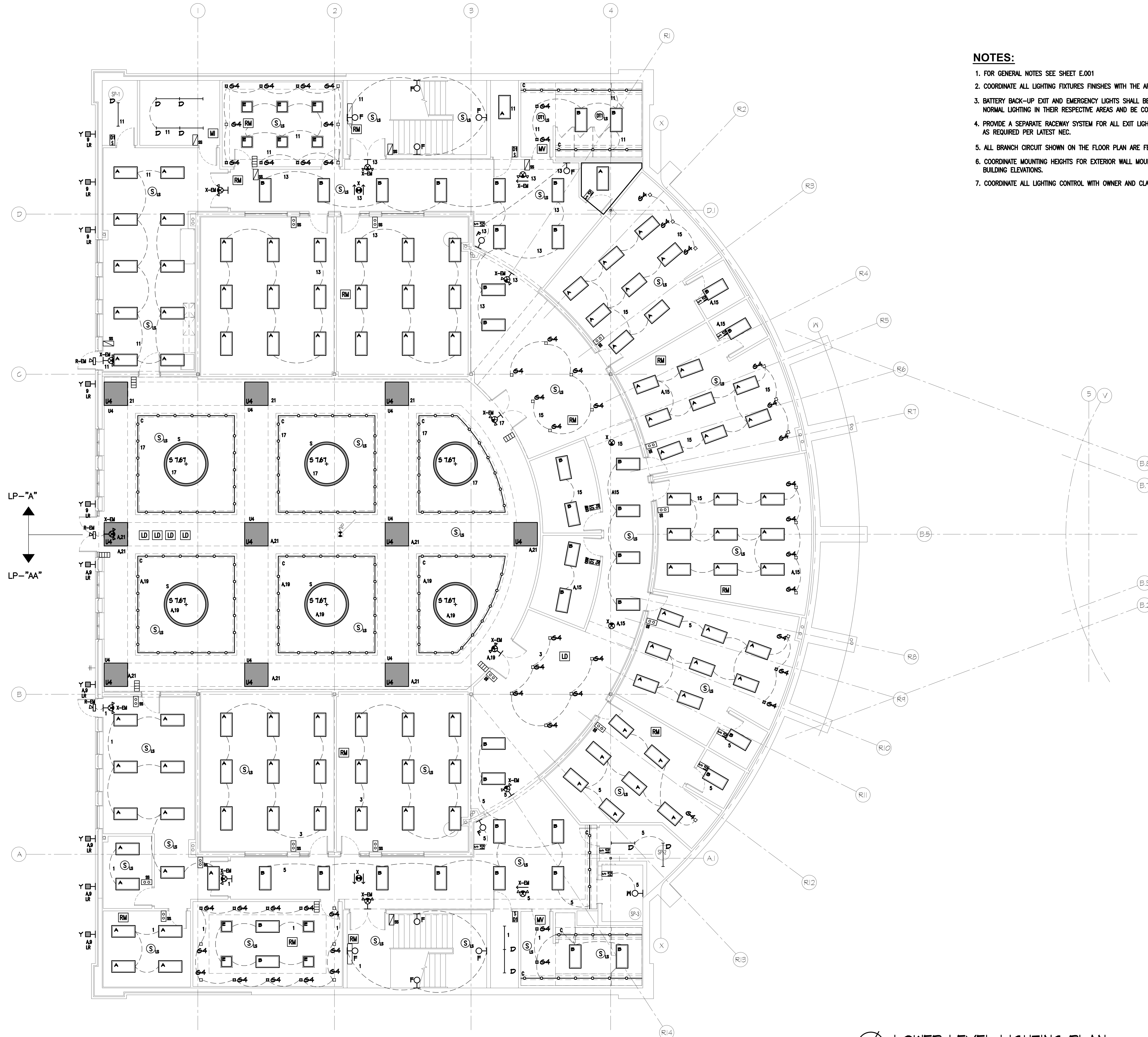
DRAWN:	DESIGNED:	CHECKED:
IH	IH	GA

SCALE : 1" = 30'-0"
FILE NAME : 19054_E100
JOB #: 19059

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

SHEET TITLE
ELECTRICAL SITE PLAN

SHEET #
E.100



NOTES:

1. FOR GENERAL NOTES SEE SHEET E.001
2. COORDINATE ALL LIGHTING FIXTURES FINISHES WITH THE ARCHITECT/OWNER PRIOR TO PURCHASING.
3. BATTERY BACK-UP EXIT AND EMERGENCY LIGHTS SHALL BE FED FROM THE SAME CIRCUIT AS NORMAL LIGHTING IN THEIR RESPECTIVE AREAS AND BE CONNECTED AHEAD OF ANY LOCAL SWITCHES.
4. PROVIDE A SEPARATE RACEWAY SYSTEM FOR ALL EXIT LIGHTS, AND EMERGENCY LIGHTS AS REQUIRED PER LATEST NEC.
5. ALL BRANCH CIRCUIT SHOWN ON THE FLOOR PLAN ARE FED FROM PANEL "A" & "AA". U.O.N.
6. COORDINATE MOUNTING HEIGHTS FOR EXTERIOR WALL MOUNTED SCONCES WITH ARCHITECT AND BUILDING ELEVATIONS.
7. COORDINATE ALL LIGHTING CONTROL WITH OWNER AND CLARUS LIGHTING, INC. SUPPLIER.

LOWER LEVEL LIGHTING PLAN

SCALE: 1/8"= 1'-0"

NORTH

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

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PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN

DRAWN:	DESIGNED:	CHECKED:
IH	IH	GA

SCALE : 1/8"=1'-0"

FILE NAME : 19059_E200

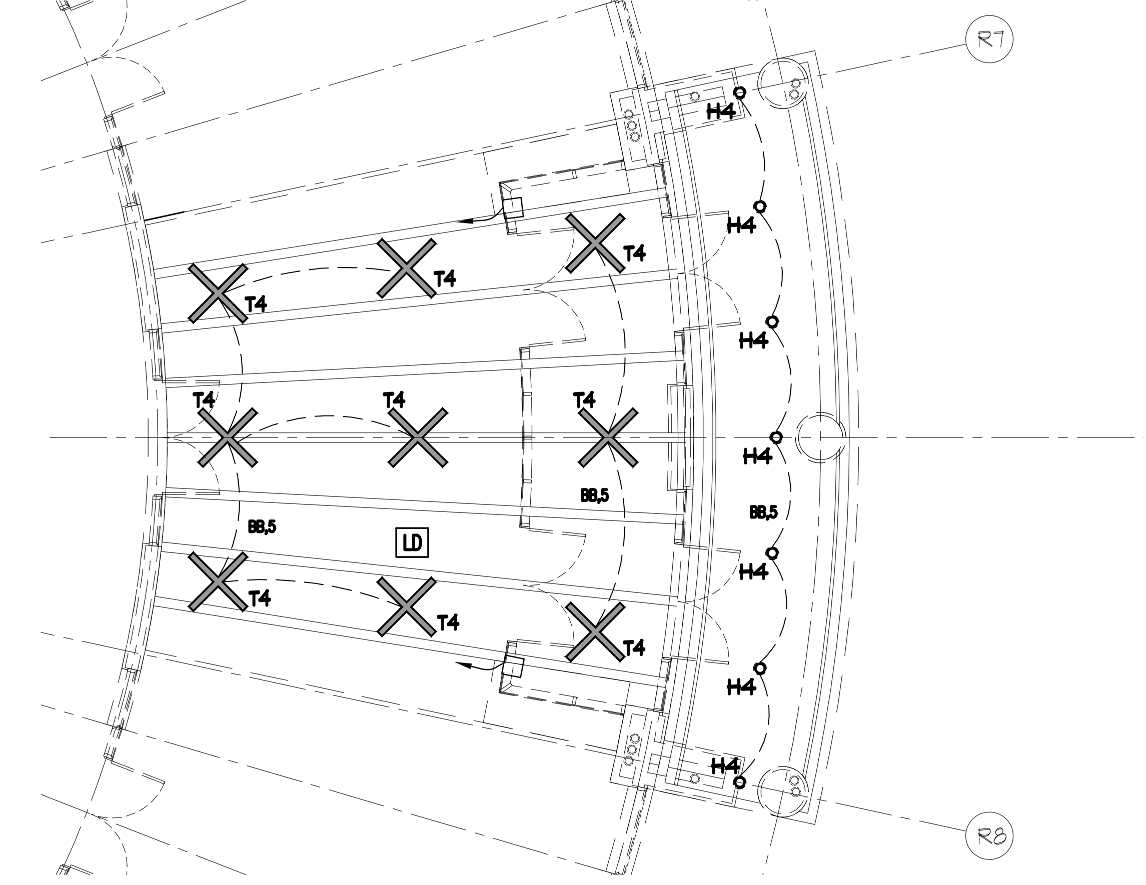
JOB #: 19059

SHEET TITLE

LOWER LEVEL LIGHTING FLOOR PLAN

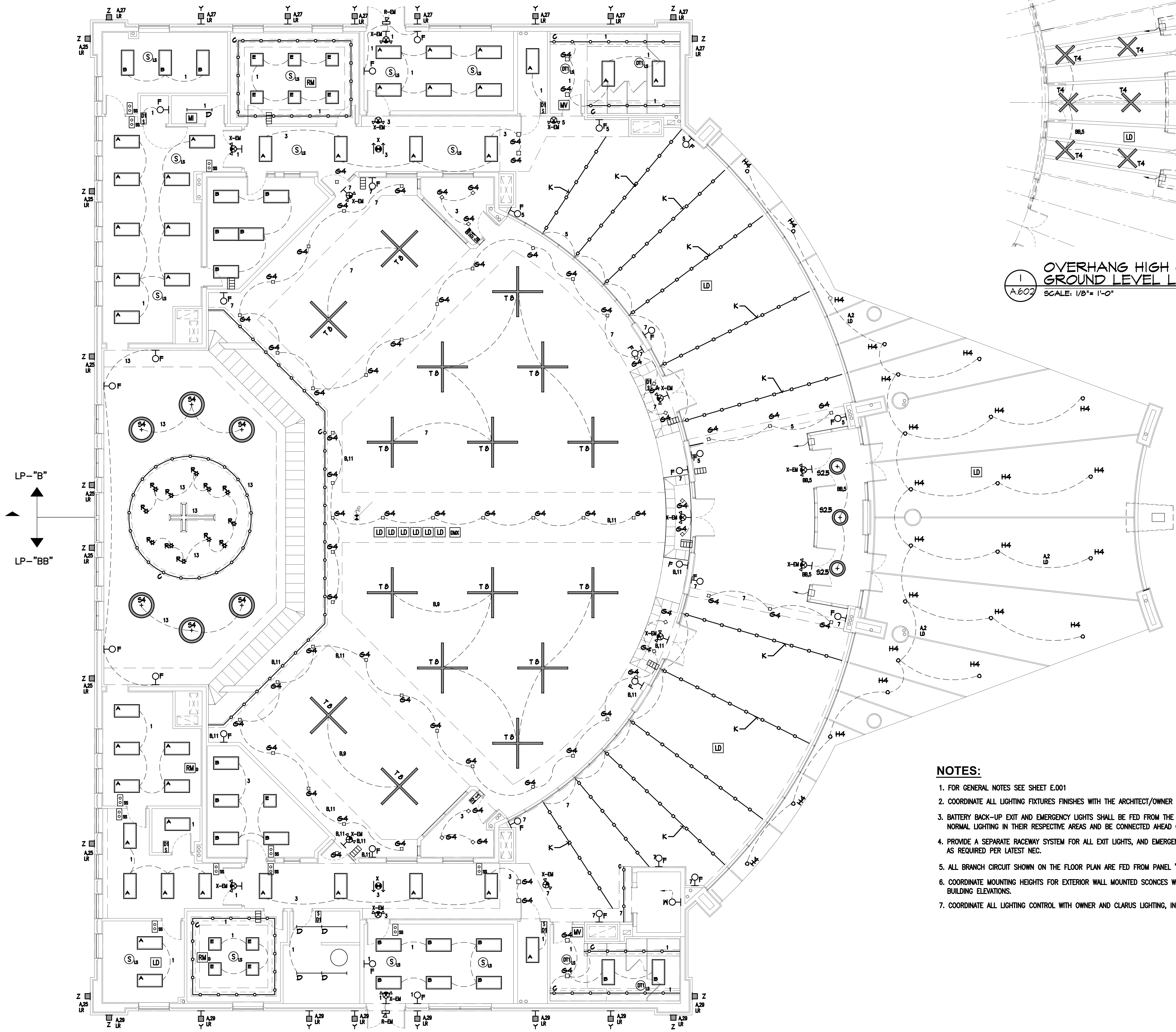
SHEET #

E.200



OVERHANG HIGH CEILING GROUND LEVEL LIGHTING PLAN

1/A602 SCALE: 1/8"= 1'-0"



GROUND LEVEL LIGHTING PLAN

SCALE: 1/8"= 1'-0"

NORTH

NOTES:

1. FOR GENERAL NOTES SEE SHEET E.001
2. COORDINATE ALL LIGHTING FIXTURES FINISHES WITH THE ARCHITECT/OWNER PRIOR TO PURCHASING.
3. BATTERY BACK-UP EXIT AND EMERGENCY LIGHTS SHALL BE FED FROM THE SAME CIRCUIT AS NORMAL LIGHTING IN THEIR RESPECTIVE AREAS AND BE CONNECTED AHEAD OF ANY LOCAL SWITCHES.
4. PROVIDE A SEPARATE RACEWAY SYSTEM FOR ALL EXIT LIGHTS, AND EMERGENCY LIGHTS AS REQUIRED PER LATEST NEC.
5. ALL BRANCH CIRCUIT SHOWN ON THE FLOOR PLAN ARE FED FROM PANEL "B" & "BB". U.O.N.
6. COORDINATE MOUNTING HEIGHTS FOR EXTERIOR WALL MOUNTED SCONCES WITH ARCHITECT AND BUILDING ELEVATIONS.
7. COORDINATE ALL LIGHTING CONTROL WITH OWNER AND CLARUS LIGHTING, INC. SUPPLIER.

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24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

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PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
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AUBURN HILLS, MICHIGAN

DRAWN:	DESIGNED:	CHECKED:
IH	IH	GA

SCALE : 1/8" = 1'-0"

FILE NAME : 19059_E201

JOB #: 19059

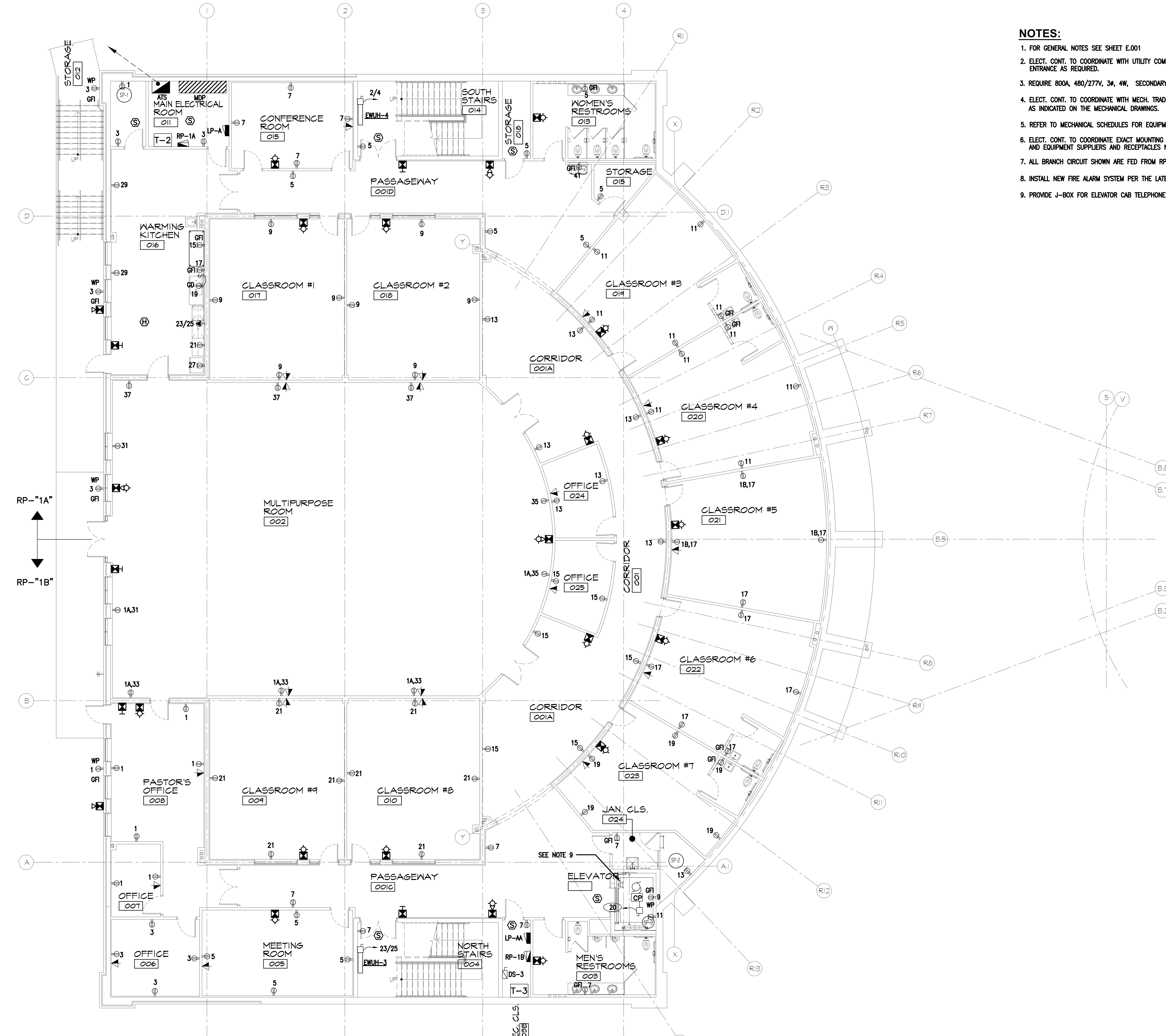
SHEET TITLE

GROUND LEVEL LIGHTING FLOOR PLAN

SHEET #

E.201

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT



NORTH

LOWER LEVEL POWER PLAN

SCALE: 1/8" = 1'-0"

NOTES:

1. FOR GENERAL NOTES SEE SHEET E.001
2. ELECT. CONT. TO COORDINATE WITH UTILITY COMPANY SERVICE PLANNER FOR LOCATION OF SERVICE ENTRANCE AS REQUIRED.
3. REQUIRE 800A, 480/277V, 3ø, 4W, SECONDARY SERVICE ENTRANCE.
4. ELECT. CONT. TO COORDINATE WITH MECH. TRADE FOR INTERLOCKING OF MECHANICAL EQUIPMENT AS INDICATED ON THE MECHANICAL DRAWINGS.
5. REFER TO MECHANICAL SCHEDULES FOR EQUIPMENT SUPPLIED WITH THEIR OWN DISCONNECT SWITCHES.
6. ELECT. CONT. TO COORDINATE EXACT MOUNTING HEIGHTS FOR WIRING DEVICES WITH OWNER AND EQUIPMENT SUPPLIERS AND RECEPTACLES NEMA CONFIGURATION PRIOR TO INSTALLATION.
7. ALL BRANCH CIRCUIT SHOWN ARE FED FROM RP-1A & 1B. UNLESS OTHERWISE NOTED.
8. INSTALL NEW FIRE ALARM SYSTEM PER THE LATEST NFPA REQUIREMENT. THE NEW SYSTEM SHALL BE BY SIMPLEX OR EQUAL.
9. PROVIDE J-BOX FOR ELEVATOR CAB TELEPHONE WITH 1"C TO TELECOM ROOM. COORDINATE WITH ELEVATOR SUPPLIER.

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
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24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

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AUBURN HILLS, MICHIGAN

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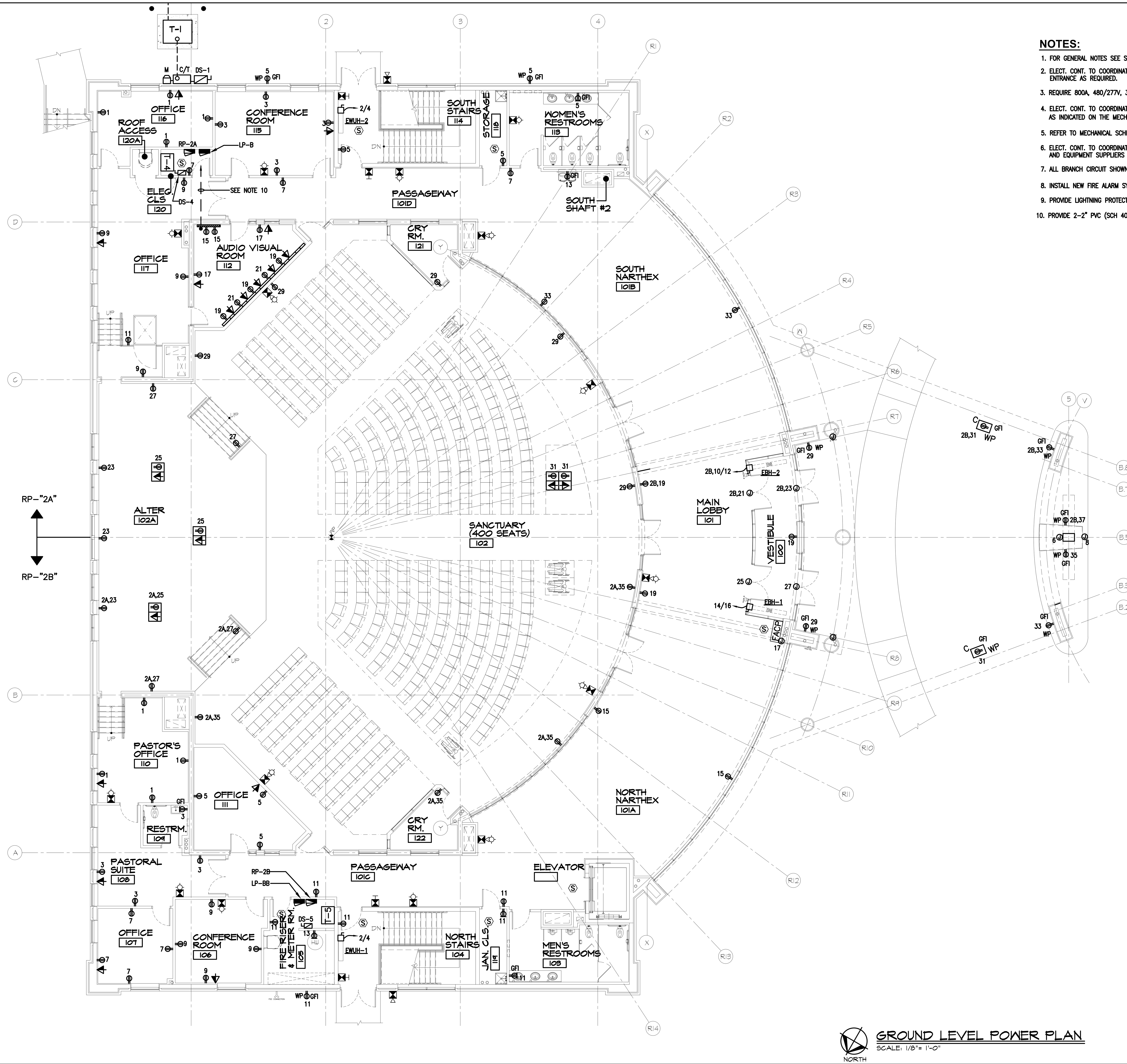
SCALE : 1/8" = 1'-0"

FILE NAME : 19059_E300

JOB #: 19059

SHEET TITLE
LOWER LEVEL POWER PLAN

SHEET #
E.300



GROUND LEVEL POWER PLAN
SCALE: 1/8" = 1'-0"

NOTES:

1. FOR GENERAL NOTES SEE SHEET E.001
2. ELECT. CONT. TO COORDINATE WITH UTILITY COMPANY SERVICE PLANNER FOR LOCATION OF SERVICE ENTRANCE AS REQUIRED.
3. REQUIRE 800A, 480/277V, 3ø, 4W, SECONDARY SERVICE ENTRANCE.
4. ELECT. CONT. TO COORDINATE WITH MECH. TRADE FOR INTERLOCKING OF MECHANICAL EQUIPMENT AS INDICATED ON THE MECHANICAL DRAWINGS.
5. REFER TO MECHANICAL SCHEDULES FOR EQUIPMENT SUPPLIED WITH THEIR OWN DISCONNECT SWITCHES.
6. ELECT. CONT. TO COORDINATE EXACT MOUNTING HEIGHTS FOR WIRING DEVICES WITH OWNER AND EQUIPMENT SUPPLIERS AND RECEPTACLES NEMA CONFIGURATION PRIOR TO INSTALLATION.
7. ALL BRANCH CIRCUIT SHOWN ARE FED FROM RP-1A & 1B. UNLESS OTHERWISE NOTED.
8. INSTALL NEW FIRE ALARM SYSTEM PER THE LATEST NFPA REQUIREMENT. THE NEW SYSTEM SHALL BE BY SIMPLEX OR EQUAL.
9. PROVIDE LIGHTNING PROTECTION FOR THE CROSS AS REQUIRED.
10. PROVIDE 2-2" PVC (SCH 40) WITH PULL ROPE FOR CABLE AND TELEPHONE SERVICE. COORDINATE WITH CABLE COMPANY.

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24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM
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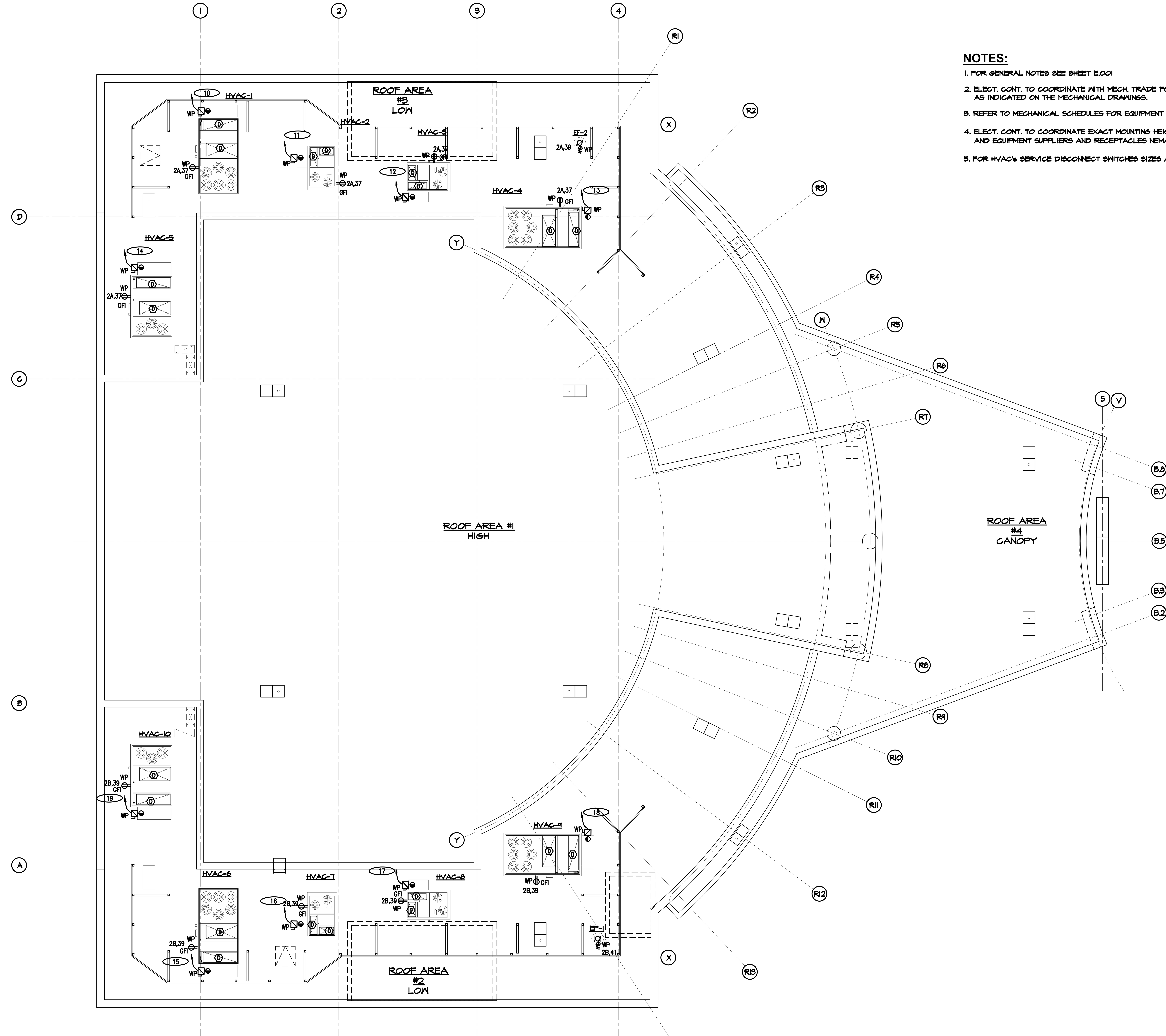
PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

DRAWN:	DESIGNED:	CHECKED:
IH	IH	GA

SCALE : 1/8" = 1'-0"
FILE NAME : 19059_E301
JOB #: 19059
SHEET TITLE
GROUND LEVEL POWER PLAN
SHEET #
E.301



POWER ROOF PLAN
SCALE: 1/8"= 1'-0"

NORTH

NOTES:

1. FOR GENERAL NOTES SEE SHEET E.001
2. ELECT. CONT. TO COORDINATE WITH MECH. TRADE FOR INTERLOCKING OF MECHANICAL EQUIPMENT AS INDICATED ON THE MECHANICAL DRAWINGS.
3. REFER TO MECHANICAL SCHEDULES FOR EQUIPMENT SUPPLIED WITH THEIR OWN DISCONNECT SWITCHES.
4. ELECT. CONT. TO COORDINATE EXACT MOUNTING HEIGHTS FOR WIRING DEVICES WITH OWNER AND EQUIPMENT SUPPLIERS AND RECEPTACLES NEMA CONFIGURATION PRIOR TO INSTALLATION.
5. FOR HVAC's SERVICE DISCONNECT SWITCHES SIZES AND RATING REFER TO ONE-LINE DIAGRAM ON SHEET E.500

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AUBURN HILLS, MICHIGAN

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

DRAWN:	DESIGNED:	CHECKED:
IH	IH	GA

SCALE : 1/8" = 1'-0"

FILE NAME : 19059_E302

JOB #: 19059

SHEET TITLE
POWER ROOF PLAN
SHEET #
E.302

INTERIOR - LIGHTING FIXTURE SCHEDULE

TYPE	QUANTITY	DESCRIPTION	MANUFACTURES & CAT. NO.	MOUNTING	VOLT	WATTS PER FIXTURE	LAMP TYPE	REMARKS
A	147	2'X4' LED LIGHT FIXTURE	METALUX – CRUZE 24CZ2–50–SQR–UNV L840–CD1–U	CEILING RECESSED	277	48.6	LED 4816 LUMENS	PROVIDE ALL THE NECESSARY SUPPORTS AND HANGERS. COLOR AND TRIM TO BE SELECTED BY ARCHITECT OR OWNER
B	66	2'X4' LED LIGHT FIXTURE	METALUX – CRUZE 24CZ2–40–SQR–UNV L840–CD1–U	CEILING RECESSED	277	36.2	LED 4030 LUMENS	PROVIDE ALL THE NECESSARY SUPPORTS AND HANGERS. COLOR AND TRIM TO BE SELECTED BY ARCHITECT OR OWNER
C	251	CONTINUOUS LED COVE FIXTURE END–TO–END VERIFY EXACT LENGTHS IN FIELD	AXIS COVE PERFEKT CCL–SL–3500–80–40 4FT–W–UNV–DP–1–C	COVE RECESSED	277	3.1W/FT	LED 300LUMENS/FT	PROVIDE ALL THE NECESSARY SUPPORTS AND HANGERS. COLOR AND TRIM TO BE SELECTED BY ARCHITECT OR OWNER
D	13	4' LED LIGHT FIXTURE	METALUX 4SNLED–LD5–33SL–LW UNV–L840–CD1–U–AYC	CEILING PENDANT	277	27.7	LED 3565 LUMENS	PROVIDE ALL THE NECESSARY SUPPORTS AND HANGERS. COLOR AND TRIM TO BE SELECTED BY ARCHITECT OR OWNER
E	22	2'X2' LED LIGHT FIXTURE	METALUX – CRUZE 22CZ2–32–SQR–UNV L840–CD1–U	CEILING RECESSED	277	26.7	LED 3150 LUMENS	PROVIDE ALL THE NECESSARY SUPPORTS AND HANGERS. COLOR AND TRIM TO BE SELECTED BY ARCHITECT OR OWNER
F	33	LED DECORATIVE LIGHT FIXTURE	GADSEN GL–5300–L24–W–XX–A	WALL SURFACE	277	28	LED 2032 LUMENS	PROVIDE ALL THE NECESSARY SUPPORTS AND HANGERS. COLOR AND TRIM TO BE SELECTED BY ARCHITECT OR OWNER
G	124	SQUARE CEILING LED LIGHT FIXTURE NUMBER INDICATES SIZE IN INCHES	USAI LIGHTING BASD–L–33C3–40KS 90–S–WH–WH–NCSM UNV–D6E	CEILING SURFACE	277	33.8	LED 2371 LUMENS	PROVIDE ALL THE NECESSARY SUPPORTS AND HANGERS. COLOR AND TRIM TO BE SELECTED BY ARCHITECT OR OWNER
K	12	CONTINUOUS LED COVE LIGHT FIXTURE W/TRIM–LESS FOR DRYWALL OR SUSPENDED CEILING. VERIFY IN THE FIELD	AXIS BEAM 4 LED BBRLED–400–80–40–1.5M XFT–W–UNV–DP–1–XX	CEILING RECESSED	277	8.47W/FT	LED 950LUMENS/FT	PROVIDE ALL THE NECESSARY SUPPORTS AND HANGERS. COLOR AND TRIM TO BE SELECTED BY ARCHITECT OR OWNER
R	72	MICRO LED TRIM–LESS DOWN LIGHT 1 1/4" x 2 1/2".	USAI LIGHTING MDL–02–08H1–40KS–35 WH–RM–08–08H1 UNV–D6E	CEILING RECESSED	277	7.3	LED 491 LUMENS	PROVIDE ALL THE NECESSARY SUPPORTS AND HANGERS. COLOR AND TRIM TO BE SELECTED BY ARCHITECT OR OWNER
S4	15	DECORATIVE CEILING SUSPENDED LED LIGHT FIXTURE. NUMBER INDICATES FIXTURE DIAMETER SIZE IN FEET.	AXIS SKPE–XXXXX–SLXX/XX CIR–XXX–80–40–SO–XX UNV–DP–1–CTXX	CEILING PENDANT	277	104.6	LED XXXX LUMENS	PROVIDE ALL THE NECESSARY SUPPORTS AND HANGERS. COLOR AND TRIM TO BE SELECTED BY ARCHITECT OR OWNER
T4	25	SUSPENDED CEILING LED LIGHT PANEL. NUMBER INDICATES FIXTURE SIZE IN FEET.	AXIS TB4DILED–X00–X00–80–40 SL–SO–XFT–XX UNV–DP–1–CXXX	CEILING PENDANT	277	49.9	LED XXXX LUMENS	PROVIDE ALL THE NECESSARY SUPPORTS AND HANGERS. COLOR AND TRIM TO BE SELECTED BY ARCHITECT OR OWNER
W	1	LED VAPORTIGHT, CAST ALUMINUM HOUSING, WITH CORROSION RESISTANT, AND SEALED GASKET	LITHONIA OLVTWM OR EQUAL	WALL SURFACE	277	26.7	LED 585 LUMENS	PROVIDE ALL THE NECESSARY SUPPORTS AND HANGERS
U4	10	SKYESCAPE 4"x4" SQUARE CEILING SUSPENDED LED LIGHT FIXTURE. NUMBER INDICATES FIXTURE SIZE IN FEET.	AXIS SKSLED–44–4800 80–40–GL–FL–UNV–DP	CEILING PENDANT	277	39	LED 4800 LUMENS	PROVIDE ALL THE NECESSARY SUPPORTS AND HANGERS. COLOR AND TRIM TO BE SELECTED BY ARCHITECT OR OWNER
X	4	QUANTUM SERIES THERMOPLASTIC LED EXIT SIGN W/NICAD BATTERY FOR 90 MINUTES MAINTENANCE FREE W/ SELF–DIAGNOSTIC	QUANTUM LQM S W 3 R 120/277 EL N SD OR EQUAL	CEILING OR WALL SURFACE	277	1	LED 10 YEARS	PROVIDE ALL THE NECESSARY SUPPORTS, AND HANGERS. WIRE EXIT UNIT TO UNSWITCHED LIGHTING CIRCUIT.
X–EM	28	QUANTUM LED EMERGENCY LIGHT FIXTURE W/NICAD BATTERY FOR 90 MINUTES MAINTENANCE FREE W/ SELF–DIAGNOSTIC	QUANTUM LHQM LED R HO SD OE EQUAL	CEILING OR WALL SURFACE	277	12	LED 10 YEARS	PROVIDE ALL THE NECESSARY SUPPORTS AND HANGERS WIRE EMERG. FIXTURE TO UNSWITCHED LIGHTING CIRCUIT.
R–EM	5	EXTERIOR ADJUSTABLE LED EMERGENCY LAMPHEAD WIRED TO ADJACENT EMERGENCY LIGHT AT INTERIOR	QUANTUM ELA QWP L0309 SD OR EQUAL	WALL SURFACE	277	9	LED 10 YEARS	PROVIDE ALL THE NECESSARY SUPPORTS AND HANGERS WIRE EMERG. FIXTURE TO UNSWITCHED LIGHTING CIRCUIT.

EXTERIOR - LIGHTING FIXTURE SCHEDULE

TYPE	QUANTITY	DESCRIPTION	MANUFACTURES & CAT. NO.	MOUNTING	VOLT	WATTS PER FIXTURE	LAMP TYPE	REMARKS
H	24	4.5" ROUND LED DOWNLIGHT FOR OUTDOOR CANOPY	USAI LIGHTING BARD–16G1–40KS 50–BF–AC–AC–NC–XX	CEILING RECESSED	277	16.8	LED 1422 LUMENS	PROVIDE ALL THE NECESSARY SUPPORTS AND HANGERS. COLOR AND TRIM TO BE SELECTED BY ARCHITECT OR OWNER
OL3	10	THE GALLEON LED LUMINAIRE HIGH–EFFIICIENCY ACCULED OPTICS FOR OUTDOOR USE. NUMBER REPRESENT DIFFERENT LIGHTING DISTRIBUTION	MCGRAW–EDISON GLEON–AF–03–LED E1–XXXX	POLE 20'–0"	277	166	LED 19580 LUMENS	PROVIDE ALL THE NECESSARY POLE AND ACCESSORIES AS REQUIRED. COORDINATE W/OWNER
V	2	THE NIGHT FALCON LED FLOODLIGHT LUMINAIRE COMBINED W/HIGH–EFFIICIENCY OPTICS. FOR OUTDOOR FLAG POLE.	COOPER NFFLD–C70–D–UNV–66 –	SLIPFITTER GROUND	277	184	LED 24045 LUMENS	PROVIDE ALL THE NECESSARY SUPPORTS AND HANGERS. COLOR AND TRIM TO BE SELECTED BY ARCHITECT OR OWNER
Y	22	TRIREME – OUTDOOR SCONCE LED – UP/DOWN	GLIGHTING TRIREME GL–5406–H–W XX–F–G	WALL SURFACE VERIFY MTD	277	13	LED 1895 LUMENS	PROVIDE ALL THE NECESSARY SUPPORTS AND HANGERS WIRE EMERG. FIXTURE TO UNSWITCHED LIGHTING CIRCUIT.
Z	14	ILLUSION – OUTDOOR SCONCE LED LIGHT FIXTURE	GLIGHTING ILLUSION GL–6555G5–XX	WALL SURFACE VERIFY MTD	277	13	LED 1500 LUMENS	PROVIDE ALL THE NECESSARY SUPPORTS AND HANGERS WIRE EMERG. FIXTURE TO UNSWITCHED LIGHTING CIRCUIT.

NOTES:

1. FOR GENERAL NOTES SEE SHEET E.001
2. ALL LIGHT FIXTURES WITH CAT. NO. XX ARE TO BE COORDINATED WITH ARCHITECT AND MANUFACTURER FOR EXACT SECTION LENGTHS AND LIGHTING DISTRIBUTION ILLUMINATION SYSTEM.
3. ELECT. CONTRACTOR TO VERIFY EXACT QUANTITIES OF LIGHT FIXTURES FOR THIS PROJECT IN THE FIELD.

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	08.23.2021

ARCHITECTURAL DESIGN
RESIDENTIAL
COMMERCIAL
INDUSTRIAL

G.A.V. ASSOCIATES, INC
24001 ORCHARD LAKE RD., STE. 180A
FARMINGTON, MICHIGAN 48336
PH: (248) 985-9101
WEB: WWW.GAVASSOCIATES.COM

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN

DRAWN:	DESIGNED:	CHECKED:
IH	IH	GA

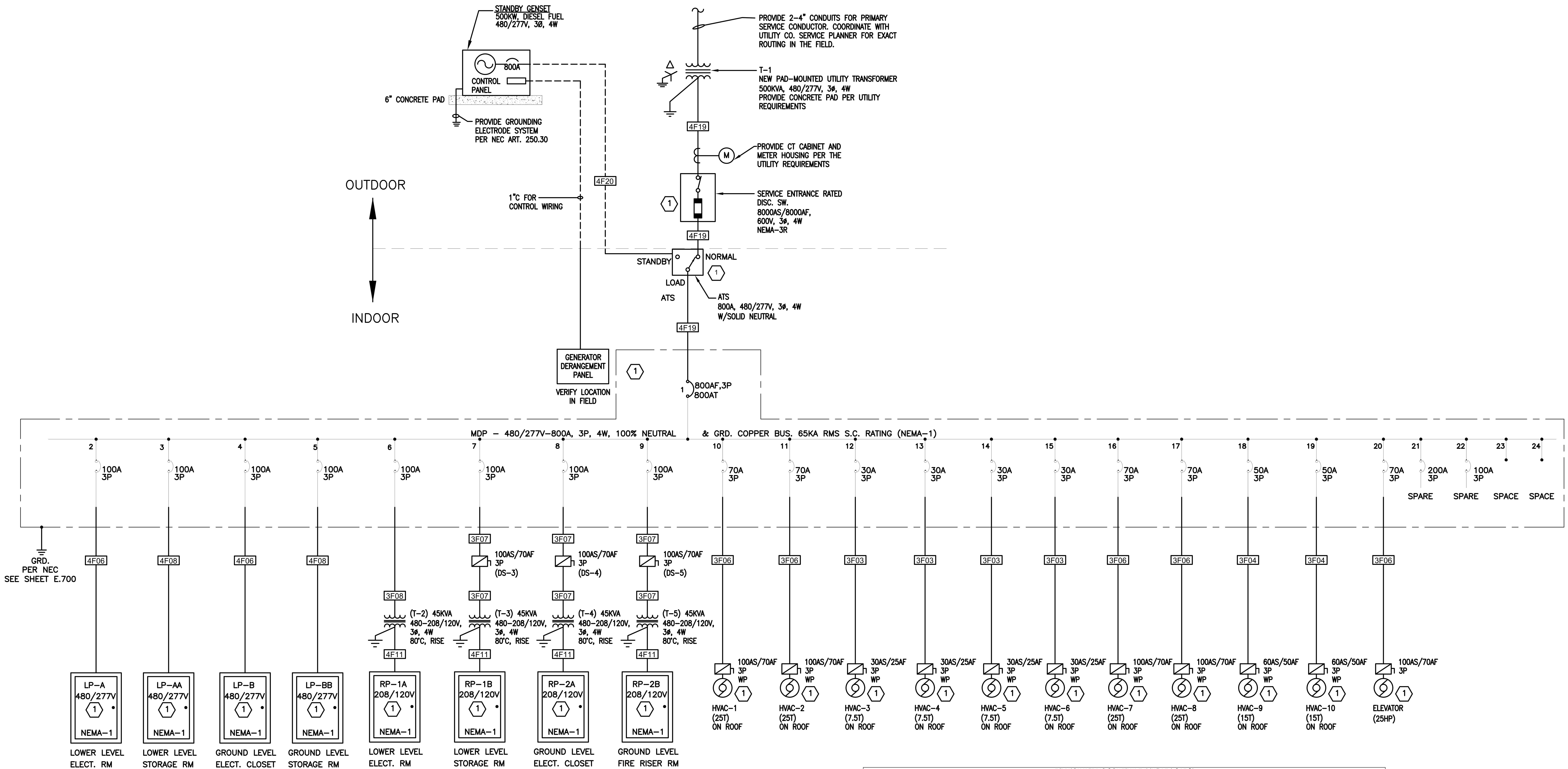
SCALE : NONE

FILE NAME : 19059_E400

JOB #: 19059

SHEET TITLE
LIGHTING FIXTURE SCHEDULE

SHEET #
E.400



POWER DISTRIBUTION ONE-LINE DIAGRAM @480/277V, 3Ø, 4W SYSTEM

NTS

BRANCH WIRING SCHEDULE (LINEAR LOADS)						
OVERCURRENT DEVICE RATING (AMPS)	FEEDER CODE	WIRE & CONDUIT SIZE (2 WIRE SYSTEM)	FEEDER CODE	WIRE & CONDUIT SIZE (3 WIRE SYSTEM)	FEEDER CODE	WIRE & CONCUIT SIZE (4 WIRE SYSTEM)
15	2F01	2#12 & 1#12GND IN 3/4"C	3F01	3#12 & 1#12GND IN 3/4"C	4F01	4#12 & 1#12GND IN 3/4"C
20	2F01	2#12 & 1#12GND IN 3/4"C	3F01	3#12 & 1#12GND IN 3/4"C	4F01	4#12 & 1#12GND IN 3/4"C
25	2F02	2#10 & 1#10GND IN 3/4"C	3F02	3#10 & 1#10GND IN 3/4"C	4F02	4#10 & 1#10GND IN 3/4"C
30	2F02	2#10 & 1#10GND IN 3/4"C	3F02	3#10 & 1#10GND IN 3/4"C	4F02	4#10 & 1#10GND IN 3/4"C
35	2F03	2#8 & 1#10GND IN 3/4"C	3F03	3#8 & 1#10GND IN 3/4"C	4F03	4#8 & 1#10GND IN 3/4"C
40	2F03	2#8 & 1#10GND IN 3/4"C	3F03	3#8 & 1#10GND IN 3/4"C	4F03	4#8 & 1#10GND IN 3/4"C
45	2F03	2#8 & 1#10GND IN 3/4"C	3F03	3#8 & 1#10GND IN 3/4"C	4F03	4#8 & 1#10GND IN 3/4"C
50	2F03	2#8 & 1#10GND IN 3/4"C	3F03	3#8 & 1#10GND IN 3/4"C	4F03	4#8 & 1#10GND IN 3/4"C
60	2F04	2#6 & 1#10GND IN 3/4"C	3F04	3#6 & 1#10GND IN 1"C	4F04	4#6 & 1#10GND IN 1"C
70	2F05	2#4 & 1#8GND IN 1"C	3F05	3#4 & 1#8GND IN 1"C	4F05	4#4 & 1#8GND IN 1-1/2"C
80	2F05	2#4 & 1#8GND IN 1"C	3F05	3#4 & 1#8GND IN 1"C	4F05	4#4 & 1#8GND IN 1-1/2"C
90	2F06	2#3 & 1#8GND IN 1"C	3F06	3#3 & 1#8GND IN 1-1/2"C	4F06	4#4 & 1#8GND IN 1-1/2"C
100	2F06	2#3 & 1#8GND IN 1"C	3F06	3#3 & 1#8GND IN 1-1/2"C	4F06	4#4 & 1#8GND IN 1-1/2"C
110	2F07	2#2 & 1#6GND IN 1"C	3F07	3#2 & 1#6GND IN 1-1/2"C	4F07	4#2 & 1#6GND IN 1-1/2"C
125	2F08	2#1 & 1#6GND IN 1-1/2"C	3F08	3#1 & 1#6GND IN 1-1/2"C	4F08	4#1 & 1#6GND IN 1-1/2"C
150	2F09	2#1/0 & 1#6GND IN 1-1/2"C	3F09	3#1/0 & 1#6GND IN 1-1/2"C	4F09	4#1/0 & 1#6GND IN 2"C
175	2F10	2#2/0 & 1#6GND IN 1-1/2"C	3F10	3#2/0 & 1#6GND IN 2"C	4F10	4#2/0 & 1#6GND IN 2"C
200	2F11	2#3/0 & 1#6GND IN 1-1/2"C	3F11	3#3/0 & 1#6GND IN 2"C	4F11	4#3/0 & 1#6GND IN 2"C
225	2F12	2#4/0 & 1#4GND IN 2"C	3F12	3#4/0 & 1#4GND IN 2"C	4F12	4#4/0 & 1#4GND IN 2-1/2"C
250	2F13	2-250 KCMIL & 1#4GND IN 2"C	3F13	3-250 KCMIL & 1#4GND IN 2-1/2"C	4F13	4-250 KCMIL & 1#4GND IN 2-1/2"C
300	2F14	2-350 KCMIL & 1#4GND IN 2-1/2"C	3F14	3-350 KCMIL & 1#4GND IN 3"C	4F14	4-350 KCMIL & 1#4GND IN 3"C
350	2F15	2-500 KCMIL & 1#3GND IN 3"C	3F15	3-500 KCMIL & 1#3GND IN 3"C	4F15	4-500 KCMIL & 1#3GND IN 3-1/2"C
400	2F15	2-500 KCMIL & 1#3GND IN 3"C	3F15	3-500 KCMIL & 1#3GND IN 3"C	4F15	4-500 KCMIL & 1#3GND IN 3-1/2"C
450	2F16	(2) 2#4/0 & 1#2GND IN 2"C	3F16	(2) 3#4/0 & 1#2GND IN 2"C	4F16	(2) 4#4/0 & 1#2GND IN 2-1/2"C
500	2F17	(2) 2-250 KCMIL & 1#2GND IN 2"C	3F17	(2) 3-250 KCMIL & 1#2GND IN 2-1/2"C	4F17	(2) 4-250 KCMIL & 1#2GND IN 2-1/2"C
600	2F18	(2) 2-350 KCMIL & 1#1GND IN 2-1/2"C	3F18	(2) 3-350 KCMIL & 1#1GND IN 3"C	4F18	(2) 4-350 KCMIL & 1#1GND IN 3"C
700	2F19	(2) 2-500 KCMIL & 1#1/0GND IN 3"C	3F19	(2) 3-500 KCMIL & 1#1/0GND IN 3"C	4F19	(2) 4-500 KCMIL & 1#1/0GND IN 3-1/2"C
800	2F19	(2) 2-500 KCMIL & 1#1/0GND IN 3"C	3F19	(2) 3-500 KCMIL & 1#1/0GND IN 3"C	4F19	(2) 4-500 KCMIL & 1#1/0GND IN 3-1/2"C
1000	2F20	(3) 2-500 KCMIL & 1#2/0GND IN 3"C	3F20	(3) 3-500 KCMIL & 1#2/0GND IN 3"C	4F20	(3) 4-500 KCMIL & 1#2/0GND IN 3-1/2"C
1200	2F21	(4) 2-350 KCMIL & 1#3/0GND IN 2-1/2"C	3F21	(4) 3-350 KCMIL & 1#3/0GND IN 2-1/2"C	4F21	(4) 4-350 KCMIL & 1#3/0GND IN 3"C
1600	2F22	(5) 2-500 KCMIL & 1#4/0GND IN 3"C	3F22	(5) 3-500 KCMIL & 1#4/0GND IN 3"C	4F22	(5) 4-500 KCMIL & 1#4/0GND IN 3-1/2"C
2000	2F23	(6) 2-500 KCMIL & 1-250KCMIL GND IN 3"C	3F23	(6) 3-500 KCMIL & 1-250KCMIL GND IN 3"C	4F23	(6) 4-500 KCMIL & 1-250KCMIL GND IN 3-1/2"C
2500	2F24	(7) 2-500 KCMIL & 1-350KCMIL GND IN 3"C	3F24	(7) 3-500 KCMIL & 1-350KCMIL GND IN 3"C	4F24	(7) 4-500 KCMIL & 1-350KCMIL GND IN 3-1/2"C
3000	2F25	(8) 2-500 KCMIL & 1-500KCMIL GND IN 3"C	3F25	(8) 3-500 KCMIL & 1-500KCMIL GND IN 3"C	4F25	(8) 4-500 KCMIL & 1-500KCMIL GND IN 3-1/2"C
3200	2F36	(9) 2-500 KCMIL & 1-500KCMIL GND IN 3"C	3F36	(9) 3-500 KCMIL & 1-500KCMIL GND IN 3"C	4F36	(9) 4-500 KCMIL & 1-500KCMIL GND IN 3-1/2"C
4000	2F27	(11) 2-500 KCMIL & 1-500KCMIL GND IN 3"C	3F27	(11) 3-500 KCMIL & 1-500KCMIL GND IN 3"C	4F27	(11) 4-500 KCMIL & 1-500KCMIL GND IN 3-1/2"C

NOTES:
1 - USE THIS SCHEDULE FOR FEEDERS AND BRANCH CIRCUIT SIZING IF NOT INDICATED ON:
a. ELECTRICAL SINGLE LINE DIAGRAM
b. PANEL SCHEDULES

KEY NOTE:

(1) PROVIDE AND INSTALL ARC FLASH LABELS PER NEC ART. 110.16 REQUIREMENTS.

NOTES:

1. FOR GENERAL NOTES SEE SHEET E.001.
2. FOR EXACT SERVICE ENTRANCE EQUIPMENT LAYOUT, DIMENSIONS, LOCATION, AND INSTALLATION COORDINATE WITH THE SELECTED MANUFACTURER, OWNER, AND THE UTILITY COMPANY PRIOR TO INSTALLATION.
3. REQUIRE 800A, 480/277V, 3Ø, 4W, SECONDARY SERVICE ENTRANCE.

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

ISSUED FOR	DATE
PERMITS	06.25.2021

ARCHITECTURAL DESIGN

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

G.A.V. & ASSOCIATES, INC.
31471 NORTHWESTERN HWY., SUITE #2
FARMINGTON HILLS, MI. 48334
(248) 985-9101
FAX (248) 985-9105
EMAIL: GAV@GAVASSOCIATES.COM

ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN

DRAWN:	DESIGNED:	CHECKED:
IH	IH	GA

SCALE : NONE

FILE NAME : 19059_E500

JOB #: 19059

SHEET TITLE
ELECTRICAL ONE-LINE DIAGRAM

SHEET #
E.500

" MDP "			Number of poles:	24/3P		
Voltage:	480/277		Size (Amps):	800A, MB		
Phase:	3		Bussing Size:	800A, CU		
Hertz:	60		Neutral Size:	100%		
Mounting:	Surface		Enclosure:	NEMA 1		
Location:	ELECT. RM		Rating	65KAIC		

Circiut #	Brkr. Size	Description	Phase A	Phase B	Phase C
1	800A	MAIN BREAKER	0	0	0
2	100A	LP-A	4250	3180	3750
3	100A	LP-AA	1500	1100	1500
4	100A	LP-B	4000	2000	2200
5	100A	LP-BB	2000	500	1000
6	100A	(T-2) - RP-1A	13336	9720	11440
7	100A	(T-3) - RP-1B	6216	3060	5496
8	100A	(T-4) - RP-2A	9200	8340	7380
9	100A	(T-5) - RP-2B	9660	11560	9160
10	70A	HVAC-1 (On Roof)	16952	16952	16952
11	70A	HVAC-2 (On Roof)	16952	16952	16952
12	30A	HVAC-3 (On Roof)	5817	5817	5817
13	30A	HVAC-4 (On Roof)	5817	5817	5817
14	30A	HVAC-5 (On Roof)	5817	5817	5817
15	30A	HVAC-6 (On Roof)	5817	5817	5817
16	70A	HVAC-7 (On Roof)	16952	16952	16952
17	70A	HVAC-8 (On Roof)	16952	16952	16952
18	50A	HVAC-9 (On Roof)	1110	1110	1110
19	50A	HVAC-10 (On Roof)	1110	1110	1110
20	70A	ELEVATOR (25HP)	9500	9500	9500
21	200A	Spare	0	0	0
22	100A	Spare	0	0	0
23		Space			
24		Space			
		Total VA Each Phase	152958	142256	144722
		Total Connected KVA	152.958	142.256	144.722
		Total Connected Amps	552.19	513.56	522.46
		Total Connected 3-Phase Amps	529.41		
		Total Demand 3-Phase Amps	423.52		

" LP-A "			Number of poles:	30		
Voltage:	480/277		Size (Amps):	100 MB		
Phase:	3		Bussing Size:	100 A, CU		
Hertz:	60		Neutral Size:	100%		
Mounting:	Surface		Enclosure:	NEMA 1		
Location:	Elect. RM		Rating	65KAIC		

Circiut #	Wire Size	Brkr. Size	Description	Phase A	Phase B	Phase C
1	#12	20A	L- Parking Lot Lights	500		
3	#12	20A	L- Parking Lot Lights		700	
5	#12	20A	L- Parking Lot Lights			500
7	#12	20A	L- Cross Flood Light	400		
9	#12	20A	L- Outdoor Wall Sconces - Lower Level		130	
11	#12	20A	L- Kitchen, Elect., Conf., South Stairs, Women			900
13	#12	20A	L- Classroom #1 &#2, Passageway, Storage	1500		
15	#12	20A	L- Classroom #3, 4 , 5, Corridor, Office		1800	
17	#12	20A	L- Multipurpose Room			1200
19	#12	20A	L- Multipurpose Room	1200		
21	#12	20A	L- Multipurpose Room		400	
23	#12	20A	L- Outdoor Control Panel			1000
25	#12	20A	L- Outdoor Wall Sconces - Ground Level - East	150		
27	#12	20A	L- Outddor Wall Sconces - Ground Level - North		150	
29	#12	20A	L- Outdoor Wall Sconces - Ground Level - South			150
2	#12	20A	L- Outdoor Main Canopy	500		
4		20A	Spare		0	
6		20A	Spare			0
8		20A	Spare	0		
10		20A	Spare		0	
12		20A	Spare			0
14			Space			
16			Space			
18			Space			
20			Space			
22			Space			
24			Space			
26			Space			
28			Space			
30			Space			
			Total VA Each Phase	4250	3180	3750
			Total Connected KVA	4.25	3.18	3.75
			Total Connected Amps	35.42	26.50	31.25
			Total Connected 3-Phase Amps	13.45		
			Total Demand 3-Phase Amps	16.82		

" LP-AA "			Number of poles:	30		
Voltage:	480/277		Size (Amps):	100 MB		
Phase:	3		Bussing Size:	100 A, CU		
Hertz:	60		Neutral Size:	100%		
Mounting:	Surface		Enclosure:	NEMA 1		
Location:	Storage RM		Rating	65KAIC		

Circiut #	Wire Size	Brkr. Size	Description	Phase A	Phase B	Phase C
1	#12	20A	L- Pastor's Office, Office, North Stairs, Men's	1500		
3	#12	20A	L- Classroom#8 & #9, Corridor		1100	
5	#12	20A	L- Classroom#6 & #7, Passageway, Elev. Pit			1500
7		20A	Spare	0		
9		20A	Spare		0	
11		20A	Spare			0
13		20A	Spare	0		
15		20A	Spare		0	
17		20A	Spare			0
19		20A	Spare	0		
21		20A	Spare		0	
23		20A	Spare			0
25			Space			
27			Space			
29			Space			
2			Space			
4			Space			
6			Space			
8			Space			
10			Space			
12			Space			
14			Space			
16			Space			
18			Space			
20			Space			
22			Space			
24			Space			
26			Space			
28			Space			
30			Space			
			Total VA Each Phase	1500	1100	1500
			Total Connected KVA	1.5	1.1	1.5
			Total Connected Amps	12.50	9.17	12.50
			Total Connected 3-Phase Amps	4.93		
			Total Demand 3-Phase Amps	6.17		

" LP-B "			Number of poles:	30		
Voltage:	480/277		Size (Amps):	100 MB		
Phase:	3		Bussing Size:	100 A, CU		
Hertz:	60		Neutral Size:	100%		
Mounting:	Surface		Enclosure:	NEMA 1		
Location:	Elect. Closet		Rating	65KAIC		

Circiut #	Wire Size	Brkr. Size	Description	Phase A	Phase B	Phase C
1	#12	20A	L- Office, Conf. Rm, South Stairs, Women's	1000		
3	#12	20A	L- Audio/Visual Rm, Passageway		500	
5	#12	20A	L- South Narthex			700
7	#12	20A	L- Sanctuary	1500		
9	#12	20A	L- Sanctuary		1500	
11	#12	20A	L- Sanctuary			1500
13	#12	20A	L- Alter	1500		
15		20A	Spare		0	
17		20A	Spare			0
19		20A	Spare	0		
21		20A	Spare		0	
23		20A	Spare			0
25			Space			
27			Space			
29			Space			
2			Space			
4			Space			
6			Space			
8			Space			
10			Space			
12			Space			
14			Space			
16			Space			
18			Space			
20			Space			
22			Space			
24			Space			
26			Space			
28			Space			
30			Space			
			Total VA Each Phase	4000	2000	2200
			Total Connected KVA	4	2	2.2
			Total Connected Amps	33.33	16.67	18.33
			Total Connected 3-Phase Amps	9.87		
			Total Demand 3-Phase Amps	12.33		

" LP-BB "			Number of poles:	30		
Voltage:	480/277		Size (Amps):	100 MB		
Phase:	3		Bussing Size:	100 A, CU		
Hertz:	60		Neutral Size:	100%		
Mounting:	Surface		Enclosure:	NEMA 1		
Location:	Storage RM		Rating	65KAIC		

Circiut #	Wire Size	Brkr. Size	Description	Phase A	Phase B	Phase C
1	#12	20A	L- Pastor's Office, Conf., North Stairs, Men's	1000		
3	#12	20A	L- Office, Passageway		500	
5	#12	20A	L- Main Lobby			1000
7	#12	20A	L- Norht Narthex	1000		
9		20A	Spare		0	
11		20A	Spare			0
13		20A	Spare	0		
15		20A	Spare		0	
17		20A	Spare			0
19		20A	Spare	0		
21		20A	Spare		0	
23		20A	Spare			0
25			Space			
27			Space			
29			Space			
2			Space			
4			Space			
6			Space			
8			Space			
10			Space			
12			Space			
14			Space			
16			Space			
18			Space			
20			Space			
22			Space			
24			Space			
26			Space			
28			Space			
30			Space			
			Total VA Each Phase	2000	500	1000
			Total Connected KVA	2	0.5	1
			Total Connected Amps	16.67	4.17	8.33
			Total Connected 3-Phase Amps	4.21		
			Total Demand 3-Phase Amps	5.26		

" RP-1A "			Number of poles:	42		
Voltage:	208/120		Size (Amps):	200 MB		
Phase:	3		Bussing Size:	225 A, CU		
Hertz:	60		Neutral Size:	100%		
Mounting:	Surface		Enclosure:	NEMA 1		
Location:	Elect RM		Rating	22KAIC		

Circiut #	Wire Size	Brkr. Size	Description	Phase A	Phase B	Phase C
1	#12	20A	R- Sump Pump (SP-1)	1656		
3	#12	20A	R- Outdoor, Storage, Elect. RM, South Stairs		1080	
5	#12	20A	R- Passageway, Storage RM, Women's RM			1080
7	#12	20A	R- Conference RM	720		
9	#12	20A	R- Classroom#1 & #2		1440	
11	#12	20A	R- Classroom#3 & #4			1800
13	#12	20A	R- Corridor, Office	1260		
15	#12	20A	R- Kitchen		1500	
17	#12	20A	R- Kitchen			1500
19	#12	20A	R- Garbage Disposal	1200		
21	#12	20A	R- Dishwasher		1500	
23	#6	60A	R- Range			4000
25				4000		
27	#12	20A	R- Refrigerator		1200	
29	#12	20A	R- Kitchen			360
31	#12	20A	R- Multipurpose RM	1500		
33	#12	20A	R- Multipurpose RM		1500	
35	#12	20A	R- Multipurpose RM			1500
37	#12	20A	R- Multipurpose RM	1500		
39	#12	20A	Spare		0	
41	#12	20A	R- EWC			1200
2	#12	20A	EWUH-4 (South Stairs)	1500		
4					1500	
6		20A	Spare			0
8		20A	Spare	0		
10		20A	Spare		0	
12		20A	Spare			0
14		20A	Spare	0		
16		20A	Spare		0	
18		20A	Spare			0
20			Space			
22			Space			
24			Space			
26			Space			
28			Space			
30			Space			
32			Space			
34			Space			
36			Space			
38			Space			
40			Space			
42			Space			
			Total VA Each Phase	13336	9720	11440
			Total Connected KVA	13.336	9.72	11.44
			Total Connected Amps	111.13	81.00	95.33
			Total Connected 3-Phase Amps	95.82		
			Total Demand 3-Phase Amps	76.66		

" RP-1B "			Number of poles:	42		
Voltage:	208/120		Size (Amps):	200 MB		
Phase:	3		Bussing Size:	225 A, CU		
Hertz:	60		Neutral Size:	100%		
Mounting:	Surface		Enclosure:	NEMA 1		
Location:	Storage RM		Rating	22KAIC		

Circiut #	Wire Size	Brkr. Size	Description	Phase A	Phase B	Phase C
1	#12	20A	R- Pastor's Office, Outdoor	1260		
3	#12	20A	R- Office		720	
5	#12	20A	R- Meeting RM			720
7	#12	20A	R- Passageway, North Stairs, Men's RM	900		
9	#12	20A	R- Elevator Pit		180	
11	#12	20A	R- Sump Pump (SP-3)			1656
13	#12	20A	R- Sump Pump (SP-2)	1656		
15	#12	20A	R- Corridor, Office		720	
17	#12	20A	R- Classroom#5 & #6			1620
19	#12	20A	R- Classroom#7	900		
21	#12	20A	R- Classroom#8 & #9		1440	
23	#12	20A	EWUH-3 (North Stairs)			1500
25				1500		
27		20A	Spare		0	
29		20A	Spare			0
31		20A	Spare	0		
33		20A	Spare		0	
35		20A	Spare			0
37		20A	Spare	0		
39		20A	Spare		0	
41		20A	Spare			0
2			Space			
4			Space			
6			Space			
8			Space			
10			Space			
12			Space			
14			Space			
16			Space			
18			Space			
20			Space			
22			Space			
24			Space			
26			Space			
28			Space			
30			Space			
32			Space			
34			Space			
36			Space			
38			Space			
40			Space			
42			Space			
			Total VA Each Phase	6216	3060	5496
			Total Connected KVA	6.216	3.06	5.496
			Total Connected Amps	51.80	25.50	45.80
			Total Connected 3-Phase Amps	41.03		
			Total Demand 3-Phase Amps	32.83		

" RP-2A "			Number of poles:	42		
Voltage:	208/120		Size (Amps):	200 MB		
Phase:	3		Bussing Size:	225 A, CU		
Hertz:	60		Neutral Size:	100%		
Mounting:	Surface		Enclosure:	NEMA 1		
Location:	Elect. Closet		Rating	22KAIC		

Circiut #	Wire Size	Brkr. Size	Description	Phase A	Phase B	Phase C
1	#12	20A	R- Office	720		
3	#12	20A	R- Conference RM		720	
5	#12	20A	R- Outdoor, South Stairs, Women's RM			900
7	#12	20A	R- Passageway, Elect. RM	540		
9	#12	20A	R- Office		540	
11	#12	20A	R- Lift Chair			1500
13	#12	20A	E- EWC	1200		
15	#12	20A	R- Communications Board		1500	
17	#12	20A	R- Audio/Visual RM			1000
19	#12	20A	R- Audio/Visual RM	1000		
21	#12	20A	R- Audio/Visual RM		1500	
23	#12	20A	R- Alter			540
25	#12	20A	R- Alter	540		
27	#12	20A	R- Alter		720	
29	#12	20A	R- Sanctuary			720
31	#12	20A	R- Sanctuary A/V Equipment	1800		
33	#12	20A	R- South Narthex		360	
35	#12	20A	R- Sanctuary			720
37	#12	20A	R- Roof	900		
39	#12	20A	EF-2 on Roof		500	
41		20A	Spare			0
2	#12	20A	EWUH-2 (South Stairs)	1500		
4					1500	
6	#10	30A	R- Generator Block Heater			2000
8	#12	20A	R- Generator Control	1000		
10	#12	20A	R- Generator Battery Charger		1000	
12		20A	Spare			0
14		20A	Spare	0		
16		20A	Spare		0	
18		20A	Spare			0
20		20A	Spare	0		
22		20A	Spare		0	
24		20A	Spare			0
26			Space			
28			Space			
30			Space			
32			Space			
34			Space			
36			Space			
38			Space			
40			Space			
42			Space			
			Total VA Each Phase	9200	8340	7380
			Total Connected KVA	9.2	8.34	7.38
			Total Connected Amps	76.67	69.50	61.50
			Total Connected 3-Phase Amps	69.22		
			Total Demand 3-Phase Amps	55.38		

" RP-2B "			Number of poles:	42		
Voltage:	208/120		Size (Amps):	200 MB		
Phase:	3		Bussing Size:	225 A, CU		
Hertz:	60		Neutral Size:	100%		
Mounting:	Surface		Enclosure:	NEMA 1		
Location:	Fire Riser RM		Rating	22KAIC		

Circiut #	Wire Size	Brkr. Size	Description	Phase A	Phase B	Phase C
1	#12	20A	R- Pastor's Office	720		
3	#12	20A	R- Pastor's Suite		720	
5	#12	20A	R- Office			540
7	#12	20A	R- Office	720		
9	#12	20A	R- Conference RM		720	
11	#12	20A	R- Fire Riser RM, Passageway			1260
13	#12	20A	R- Water Heater	500		
15	#12	20A	R- North Narthex		360	
17	#12	20A	R- Fire Alarm Control Panel			1000
19	#12	20A	R- Main Lobby	360		
21	#12	20A	Main Lobby Door		1000	
23	#12	20A	Main Lobby Door			1000
25	#12	20A	Main Lobby Door	1000		
27	#12	20A	Main Lobby Door		1000	
29	#12	20A	R- Outddor Main Entrance			360
31	#12	20A	R- Outdoor Main Canopy	360		
33	#12	20A	R- Main Entrance Column		360	
35	#12	20A	R- Cross			1000
37	#12	20A	R- Cross	1000		
39	#12	20A	R- Roof		900	
41	#12	20A	EF-1 on Roof			500
2	#12	20A	EWUH-1 (North Stairs)	1500		
4					1500	
6	#10	30A	Cross			1000
8	#10	30A	Cross	1000		
10	#8	40A	Vestibule (EBH-2)		2500	
12						2500
14	#8	40A	Vestibule (EBH-1)	2500		
16					2500	
18		20A	Spare			0
20		20A	Spare	0		
22		20A	Spare		0	
24		20A	Spare			0
26		20A	Spare	0		
28		20A	Spare		0	
30		20A	Spare			0
32			Space			
34			Space			
36			Space			
38			Space			
40			Space			
42			Space			
			Total VA Each Phase	9660	11560	9160
			Total Connected KVA	9.66	11.56	9.16
			Total Connected Amps	80.50	96.33	76.33
			Total Connected 3-Phase Amps	84.39		
			Total Demand 3-Phase Amps	67.51		

ISSUED FOR	DATE
PERMITS	06.25.2021

ARCHITECTURAL DESIGN

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

G.A.V. & ASSOCIATES, INC.
31471 NORTHWESTERN HWY., SUITE #2
FARMINGTON HILLS, MI. 48334
(248) 985-9101
FAX (248) 985-9105
EMAIL: GAV@GAVASSOCIATES.COM

ASSOCIATES

PROPOSED BUILDING FOR:
CHURCH OF GOD IN CHRIST
3500 BALDWIN ROAD
AUBURN HILLS, MICHIGAN

DRAWN:	DESIGNED:	CHECKED:
IH	IH	GA

SCALE : NONE

FILE NAME : 18059_E600

JOB #: 18059

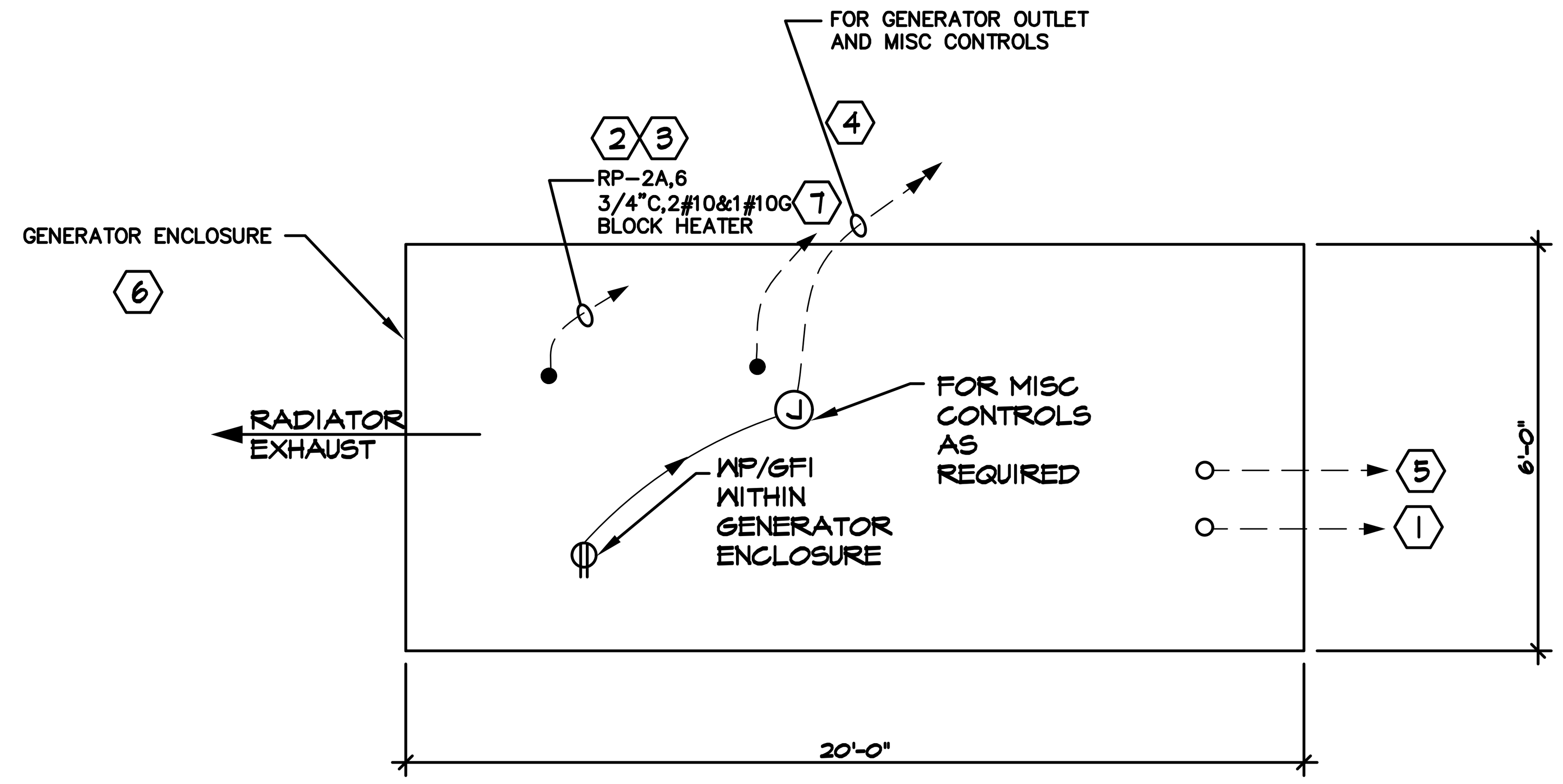
SHEET TITLE
ELECTRICAL PANEL SCHELDULE

SHEET #
E.600

STATE OF MICHIGAN
SAMIR M KARIM
ARCHITECT
No. 1301038452
LICENSED ARCHITECT

KEY NOTES:

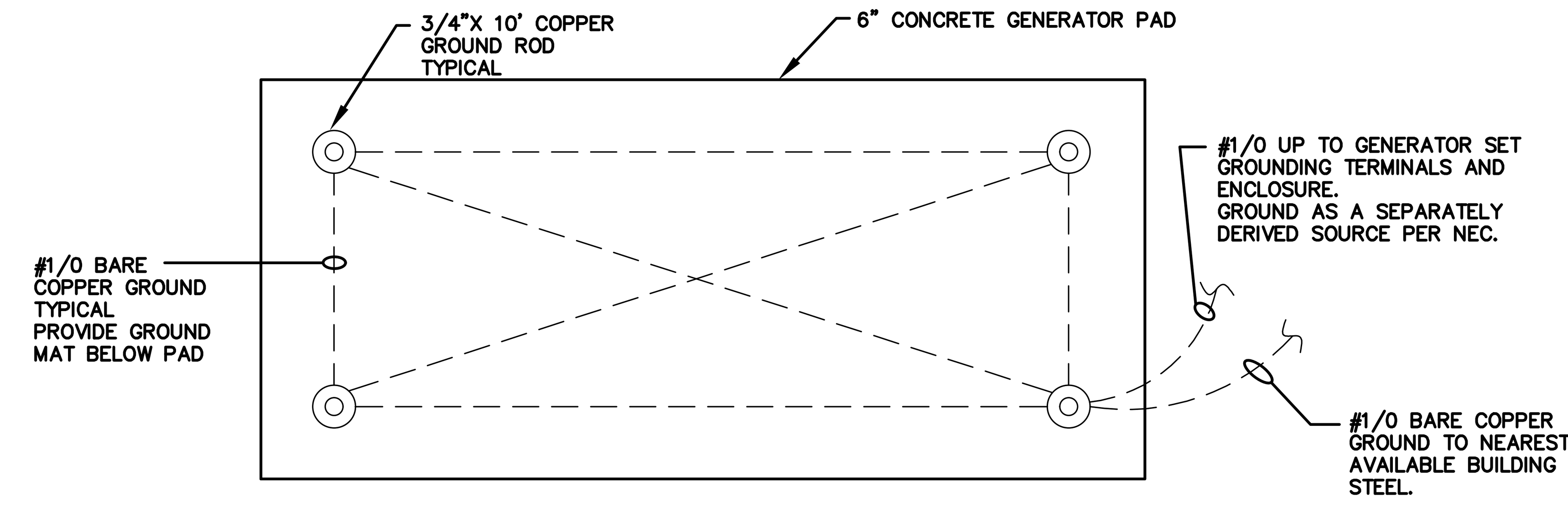
1. ROUTE CONDUITS FOR FEEDER AND ATS AND ACCESSORIES UNDERGROUND.
2. MODIFY ENGINE HEATER BRANCH CIRCUIT AND OVERCURRENT PROTECTION PER MANUFACTURERS APPROVED SUBMITTALS. TYPICAL FOR OTHER SERVICES/CONDUIT AND WIRING TO GENERATOR.
3. FOLLOW SAME CONDUIT ROUTING AND INSTALLATION REQUIREMENTS AS FOR FEEDER TO ATS. TYPICAL FOR ALL CONDUITS BETWEEN GENERATOR AND BUILDING.
4. PROVIDE 120V 20A DEDICATED BRANCH CIRCUITS FROM RP-2A,8 PANEL.
5. PROVIDE 2" CONDUIT AND WIRING FOR CONNECTION TO GENERATOR REMOTE DERANGEMENT PANEL. VERIFY FINAL LOCATION OF PANEL THE FIELD WITH THE OWNER.
6. DETERMINE FINAL PAD SIZE BASED ON APPROVED GENERATOR/SKID AND ENCLOSURE SUBMITTALS. SIZES ARE BASED ON KOHLER GENERIC CUT SHEET WITH 0" ON EACH SIDE ADDITIONAL FOR ENCLOSURE AND ARE APPROXIMATE ONLY.
7. PROVIDE 120V 20A DEDICATED BRANCH CIRCUIT FROM RP-2A,10 FOR BATTERY CHARGER.



ENLARGED EMERGENCY GENERATOR PLAN

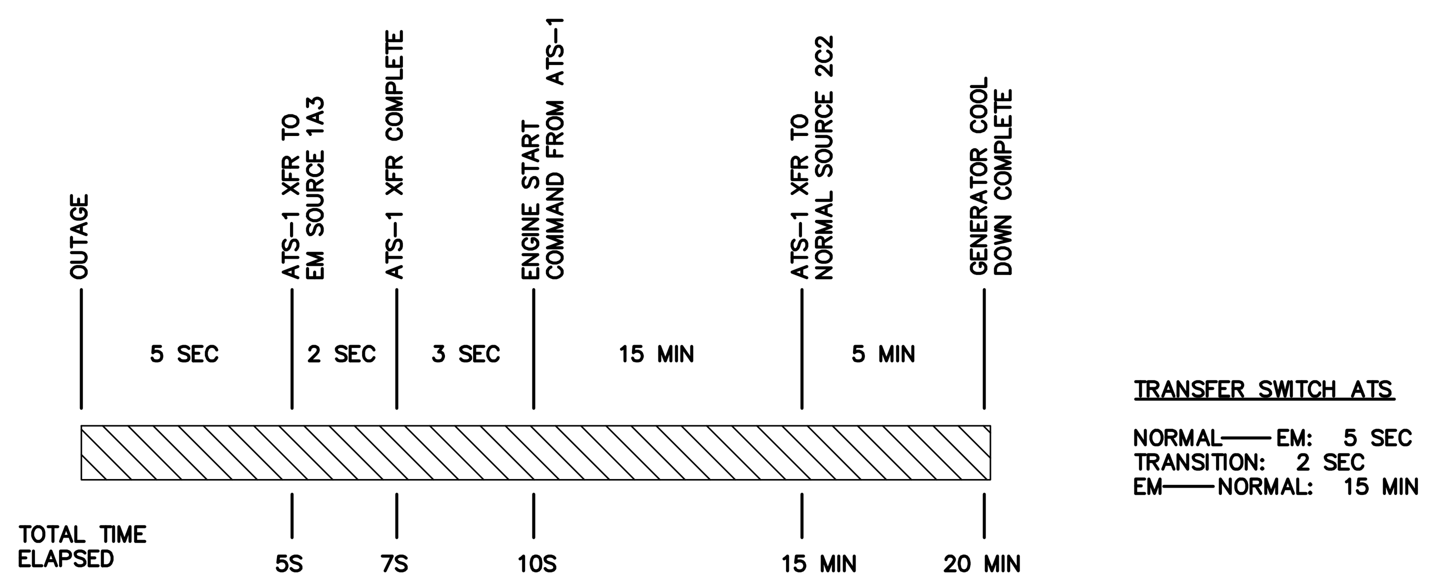
SCALE: AS NOTED

NOTE: VERIFY EXACT DIMENSION W/SELECTED MANUFACTURER



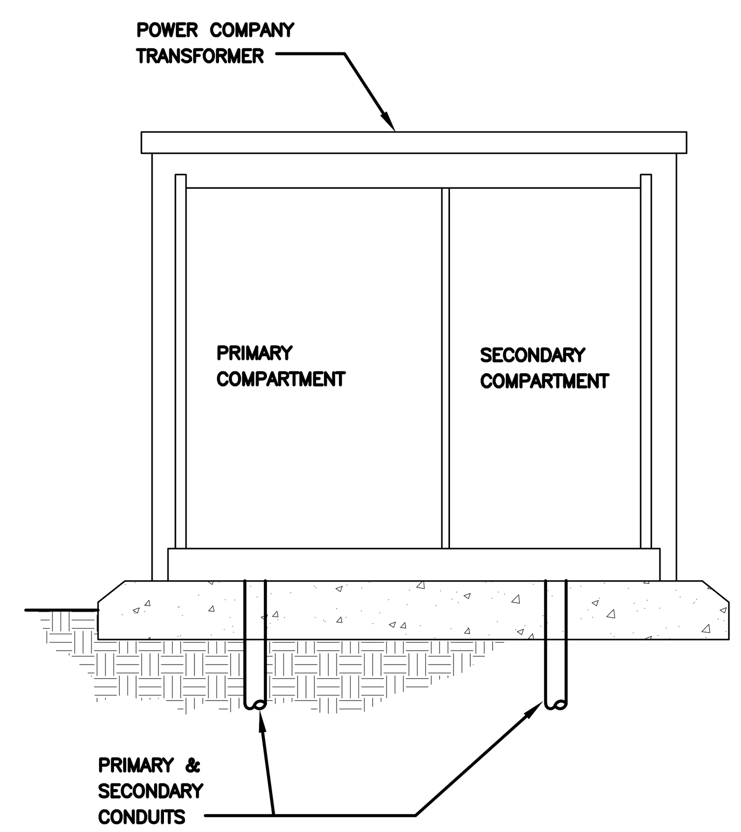
GENERATOR PAD AND GROUND MAT PLAN DETAIL

N.T.S



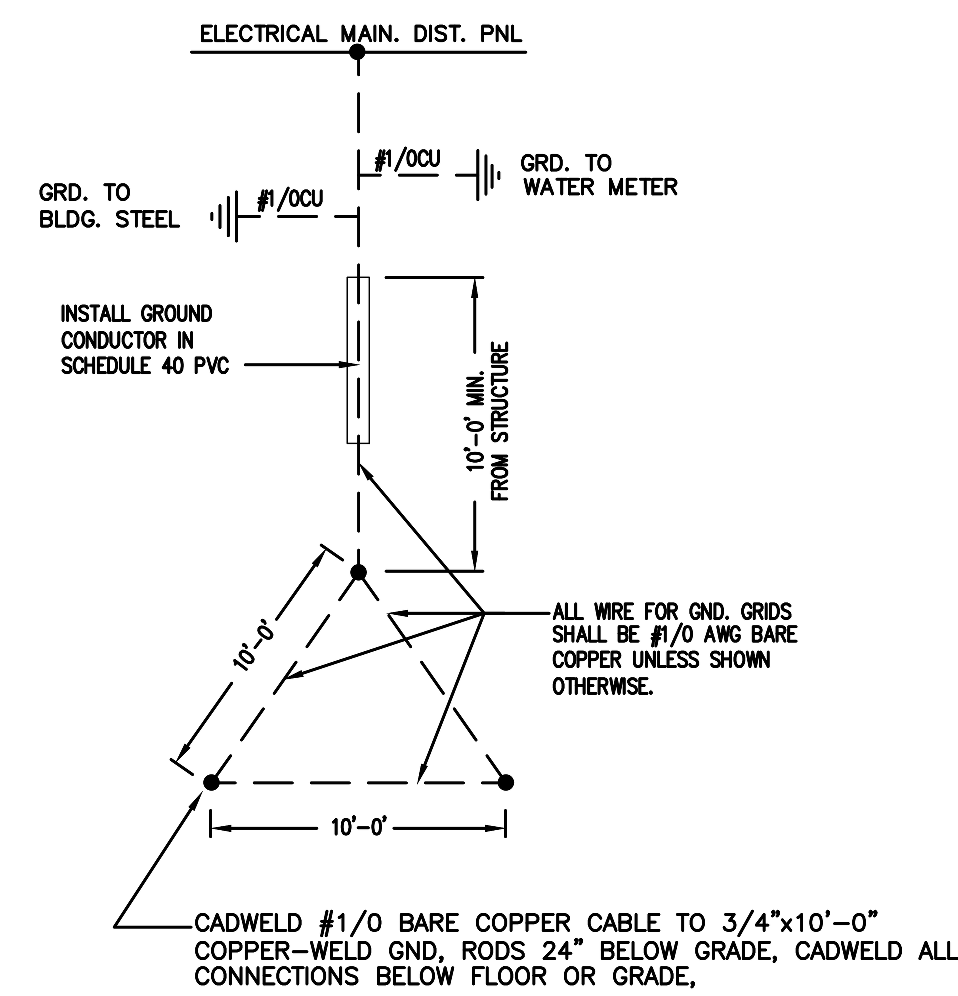
AUTOMATIC TRANSFER SWITCH (ATS) SEQUENCE OF OPERATIONS

N.T.S



UTILITY TRANSFORMER DETAIL

N.T.S



SERVICE ENTRANCE GROUND ROD GRID DETAIL

N.T.S

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AUBURN HILLS, MICHIGAN

DRAWN:	DESIGNED:	CHECKED:
IH	IH	GA

SCALE : AS SHOWN

FILE NAME : 19059_E.700

JOB #: 19059

SHEET TITLE
ELECTRICAL DETAILS

SHEET #
E.700

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